

The



CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Published 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3441
CXLV

JANUARY 19, 1946

Annual Subscription (with
Diary) 25/- Single copies 9d.

*"Peace hath her victories
No less renowned than War"*

Milton

1946



In this, the first full year of Peace,—
wishing all our clients and friends, that
which we wish ourselves, prosperity,
better conditions, easier deliveries and
more plentiful supplies

BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED, LONDON, E.6

A Rich Background of Vitamin Experience

FOR twenty-nine years vitamin research has been a major project in the Parke-Davis Laboratories. Many significant developments, including the following, have come from this work.

The first procedure for biologically measuring the vitamin D potency of cod-liver oil.

The first officially recognised method of vitamin A assay, in which Parke-Davis research workers co-operated.

The first label statement of potencies of both vitamins A and D of cod-liver oil.

The first published recognition that vitamin B (as it was originally called) consisted of two or more components.

One of the first concentrated vitamin B preparations.

Introduction of high potency fish-liver oils—such as 'Haliverol'—which made administration of vitamins A and D much easier and more certain.

•
**SEND FOR TERMS
FOR PARKE-DAVIS
VITAMIN PRODUCTS**
•

PARKE, DAVIS & COMPANY
50 Beak St., London, W.1

Inc. U.S.A. Liability Ltd.

The Use of

MILTON

IN ENVELOPE IRRIGATION THERAPY for BURNS & WOUNDS

are proud to announce to our friends in the Trade, the triumph of "Milton" the Envelope Irrigation treatment of burns and wounds.

the treatment of burns particularly, the method has proved to be one of the most merciful aids to the alleviation of pain and the promotion of rapid healing. Our wounded in the Fighting Forces, and civilians injured on the Home Front, have reason to thank this revolutionary treatment by which they have been protected from the danger of septic infection, immobility and suffering have been minimised, and perfect healing achieved with the minimum pain.

Its conclusions were published by the originator of the treatment¹ and by other workers² in 1941. These conclusions have since been endorsed by others, including the author of a paper on the treatment of chemical burns.³ The method is now officially approved.⁴ Many other references, too numerous to quote here, have appeared in the Medical Press, testifying to the value of "Milton."

WHAT "MILTON" CAN DO IN HOSPITAL,
FOR THE TERRIBLE BURNS AND WOUNDS
OF WAR, IT CAN DO EQUALLY WELL FOR
SMALL BURNS AND INJURIES IN THE HOME.

It is our aim, with your co-operation, to make the value of this treatment widely known to the public.

British Medical Journal (1941), Vol. II, p. 1, ff.

British Medical Journal (1941), Vol. II, p. 46.

Medical Press and Circular (1942), Vol. CCVIII, p. 360.

The Hospital Treatment of Burns (1943), p. 31. E.M.S. Memorandum No. 8 (Revised). H.M.S.O. Edinburgh.

PATA

Please note that all orders and enquiries should now be sent to our HEAD OFFICE :
MILTON ANTISEPTIC LTD., 10/12 Brewery Rd, London, N.7

Lifeline

Once again Britain has kept the wolf from the door. The nation's thanks are due to the seamen for bringing in so much food during the war years and to the Ministry of Food for seeing that it went where it was most needed. Undoubtedly the children's excellent state of health owes much to the 'official' issue of cod liver oil to 'under-fives' and expectant mothers—a wise and far-sighted move impossible to execute had our sea-lanes been closed.

Those who were not eligible for the subsidised issue—and many who found it more convenient to buy from their chemists—turned to SevenSeaS for health protection and extra nourishment. And because the seamen never failed us, we were able to supply the public with pure cod liver oil. Throughout the difficult years, SevenSeaS never varied from its high 1939 standard, though sometimes there were shortages. Today the nation's need for it is greater than ever before, and now that our own trawlers are back on the job, there is plenty of pure cod liver oil for everyone in every chemist's shop.

STANDARD OIL: Vitamin A 20,000 I.U.; Vitamin D 2,500 I.U. per oz.

CONCENTRATED: Vitamin A 60,000 I.U.; Vitamin D 6,000 I.U. per oz.

BRITISH COD LIVER OIL PRODUCERS (HULL) LIMITED.
ST. ANDREW'S DOCK, HULL, ENGLAND.

MEDICAL **EVANS** SUPPLIES

THE HOUSE OF EVANS

John Evans, Druggist –
Worcester 1809

John Evans & Co, Druggists –
London 1819

LIVERPOOL

Evans Sons & Co
1828

LONDON

Evans & Lescher
1828

Evans Lescher & Evans
1845

Evans Lescher & Webb
1879

1902
EVANS SONS LESCHER & WEBB LTD
Liverpool & London

1945
EVANS MEDICAL SUPPLIES LTD
Liverpool & London

FINE CHEMICALS • BIOLOGICALS • PHARMACEUTICALS



a woman's DUTY...

"On duty" at home, at all times there is always a Rendell's Product of intimate importance to every woman. "In Nurse Drew's Hygiene for Women," will be found helpful solutions to many feminine problems and full information about Rendell's Products.

For over 50 years the name Rendell has symbolised a standard of excellence well recognised and approved by the Medical Profession. Ask your chemist for a copy of the booklet.

NURSE DREW, VICTORIA HOUSE, SOUTHAMPTON ROW, LONDON, W.O.2

APPROVED BY DOCTORS

RENDELLS
FOR FEMININE HYGIENE

ADVERTISING WHICH NEVER STOPS

Rendell's Products rank among Britain's greatest proprietary lines. War-time restrictions alone limit the upward trend of their sales. Consistent, dignified advertising at all times has achieved this proud result. Ample window and counter display material is still available for all Pharmacists.

Rendell's
PRODUCTS
FOR FEMININE HYGIENE

RATA

W. J. RENDELL LTD. HARDWICK HOUSE 151-5 ROSEBERY AVENUE LONDON, E.C.1

INDEX TO ADVERTISERS

| | |
|---|-------------|
| A. Products..... | 17 |
| Alkaloids, Ltd..... | 24 |
| Al-French Drug Co., Ltd..... | Leader Page |
| Al-Fur Laboratories, The..... | 16 |
| Al-Fur, Ltd..... | xvii |
| B. Products..... | xiii |
| B. John, Hills & Lucas, Ltd..... | Leader Page |
| B. & Co., Ltd..... | 14 |
| B. Beauty Products, Ltd..... | 24 |
| B. & Co., Ltd..... | 26 |
| B. Cod Liver Oil Producers (Hull), Ltd..... | 2 |
| B. Thomson-Houston Co., Ltd..... | vi |
| B. Parker & Co., Ltd..... | xviii |
| B. & Forth, Ltd..... | 16 |
| Boydne Burbidges & Co., Ltd..... | Front Cover |
| Brough, James, Ltd..... | Leader Page |
| Broughs Wellcome & Co..... | 27 |
| C. Ltd..... | 14 |
| Corpe, M., & Co., Ltd..... | xiv |
| on Rubber Manufacturers, Ltd..... | vii |
| lon Press, Ltd..... | xiii |
| mel, Exporters & Importers..... | iv |
| S. A., & Sons, Ltd..... | vii |
| ansons, Ltd..... | xiv |
| ical & Natural Products, Ltd..... | 18 |
| ai-Synthetics, Ltd..... | xiii |
| & Abraham, Ltd..... | 10 |
| imental Laboratories, Ltd..... | 10 |
| Arthur H., & Co., Ltd..... | 8 |
| skill, C. R., & Sons..... | xviii |
| cura Preparations..... | 12 |

| | |
|---------------------------------------|--------------|
| Damancy & Co., Ltd..... | 12 |
| Dangoor, N. S., Ltd..... | iv |
| Daniel, Richard, & Son, Ltd..... | 9 |
| Demuth, R., & Co., Ltd..... | 13 |
| Dobson & Steiner..... | 8 |
| Domestos, Ltd..... | xii |
| Edosan, Ltd..... | viii |
| Elto (Chemists) Products, Ltd..... | xvi |
| Evans Medical Supplies Ltd..... | 3 |
| Fecher, M. J., Ltd..... | 6 |
| Fennings, A..... | xviii |
| Freder Brothers Paper Mills, Ltd..... | 26 |
| Freeman, J., & Co., Ltd..... | 24 |
| Freudentheil, Smith & Co..... | Leader Page |
| Gnome Photo. Prods..... | xiii |
| Gould, N. & M., Ltd..... | Leader Page |
| Graesser, R., Ltd..... | iv |
| Graesser Salicylates, Ltd..... | ii |
| Granto Laboratories..... | 12 |
| Hamburger, M., & Sons..... | iv |
| Harrogate Tablet Co., Ltd..... | xv |
| Harwoods Laboratories, Ltd..... | 5 |
| Havinden, G., Ltd..... | xii |
| Herts. Pharmaceuticals, Ltd..... | 22 |
| Hewlett, C. J., & Son, Ltd..... | xvi |
| Hirst, Stuart, Ltd..... | Leader Page |
| Howards & Sons, Ltd..... | 1 |
| Imperial Patent Wadding Co., Ltd..... | viii |
| Industrial Tapes, Ltd..... | xi |
| International Chemical Co., Ltd..... | xix |
| International Laboratories, Ltd..... | 16, 26 & xiv |
| Irish Drug Association..... | xi |

continued overleaf

The successful
much publicised
preparation

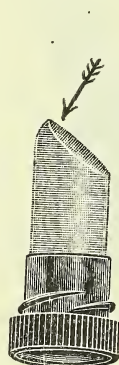
SEROCALCIN
FOR THE PREVENTION & TREATMENT OF
COLDS

The demand for
Seroalcin is
enormous — supplies
are still limited

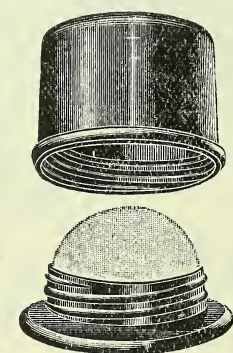
HARWOODS LABORATORIES LTD., WATFORD, HERTS. WATFORD 4457

INDEX—contd.

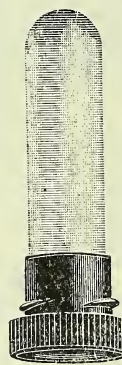
| | | | |
|---|-------------|--|-------------|
| Jeffreys, Miller & Co., Ltd..... | iv | Rendell, W. J., Ltd..... | |
| Jobling, J. A., & Co., Ltd..... | v | Riley, J., & Sons, Ltd..... | |
| | | Rona Laboratories, Ltd..... | Cover |
| | | Rozalex, Ltd..... | |
| Kaladex, Ltd..... | xvi | | |
| Koray, Ltd..... | xv | Salter, George, Ltd..... | |
| | | Samuelson, P., & Co..... | |
| Laporte, B., Ltd..... | iv | Scholl Manufacturing Co., Ltd..... | |
| Leda Chemicals, Ltd..... | 24 | Scott, A. & R., Ltd..... | |
| Leigh & Sons Metal Works..... | x | Scott & Turner, Ltd..... | |
| Lennon, Ltd..... | v | Simpkin, A. L., & Co., Ltd..... | |
| Lewis & Melchior Ltd..... | 22 | Standard Yeast Co., Ltd..... | |
| | | Stannard Distributing Agencies, Ltd..... | |
| M.R. Chemical Products, Ltd..... | xvi | Stanning Proprietaries..... | X |
| Macdonald, J..... | ix | Stekel, Edmund..... | |
| Mather, Wm., Ltd..... | ix | Surgical Equipment Supplies, Ltd..... | |
| Matthews & Wilson, Ltd..... | 22 | | |
| Matthews, S. & Co., Ltd..... | xvii | Tampax, Ltd..... | |
| Medico-Biological Laboratories, Ltd..... | 11 | Teasdale & Co., Ltd..... | |
| Midgley & Parkinson, Ltd..... | xiii | Thompson & Capper Wholesale, Ltd..... | |
| Milton Antiseptic, Ltd..... | i | Town Talk Polish Co..... | |
| Mitchell, L. A., Ltd..... | vi | Townsend, J., & Sons, Ltd..... | |
| | | | |
| Nutillis Products..... | Leader Page | Veno Drug Co., Ltd..... | |
| | | Verdiers, Ltd..... | Leader Page |
| Olley, C., & Sons, Ltd..... | x | Vinecta Products, Ltd..... | |
| Organon Laboratories, Ltd..... | v | Vines..... | |
| | | | |
| Parke, Davis & Co..... | Cover ii | Wafer Razor, The, Co., Ltd..... | |
| Pharmaceutical Specialities (May & Baker), Ltd..... | 19 | Waide, Thos., & Sons, Ltd..... | |
| Potter & Clarke, Ltd..... | 25 | Wander, A., Ltd..... | |
| | | Warwick Bros., Ltd..... | |
| Rankin Bros. & Sons..... | Leader Page | Webster, Isaac & Sons, Ltd..... | |
| Reckitt & Sons, Ltd..... | 21 | Whiffen & Sons, Ltd..... | Cover |
| Reliance Rubber Co., Ltd..... | ix | | |
| | | Zimmermann, C., & Co., Ltd..... | |



The 'FINGER TIP'
MENTHOL
11/- per dozen



The '45° DOME'
MENTHOL
2 sizes, 10/6 & 12/- doz.
(Purchase Tax 16½% extra)



'SAVE TIME'
STYPTIC PENCIL
5/- per dozen
(Purchase Tax 33½% extra)



ALL LINES PACKED IN ATTRACTIVE DISPLAY CARTONS OF ONE DOZEN

From your usual wholesaler or
IN CASE OF DIFFICULTY, APPLY TO US DIRECT

M. J. FECHER, LTD., 121 High Street, SLOUGH Phone: SLOUGH 21864

In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

VENO DRUG CO. LTD.
CHESTER ROAD · MANCHESTER 16

Founded



1839

Makers of

Pharmaceutical products known throughout the world for their High Quality—the result of long experience, specialization, and the selection of none but the finest materials for their manufacture.

ARTHUR H. COX & Co. Ltd. BRIGHTON

Are you qualifying for this Bonus?

When ordering it is only necessary to state the number of the Parcel required. All Bonus Parcels subject to $3\frac{3}{4}$ per cent. cash discount for payment within 7 days or nett 30 days.

Steiner's Eau Dentifrice sells at 3/-, 5/6, 10/6.

TYPICAL BONUS PARCEL.

| PARCEL No. 3. | Cost Price | Selling Price (Inc. Pur. Tax) |
|---------------------------------|------------------------|----------------------------------|
| 3 doz. (No. 0 size) | 3 0 0 | 5 8 0 |
| 1 doz. (No. 1 size) | 1 16 0 | 3 6 0 |
| $\frac{1}{2}$ doz. (No. 2 size) | 1 14 6 | 3 3 0 |
| 1 doz. (No. 0 size) | <i>Bonus no charge</i> | |
| | 6 10 6 | |
| | 2 8 3 | |

Purchase Tax

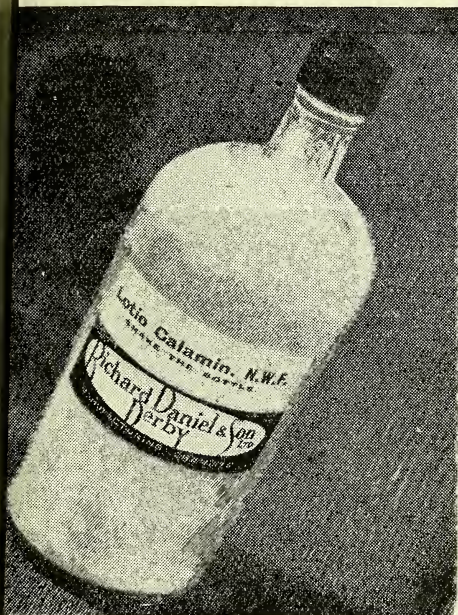
£8 18 9

£13 13 0



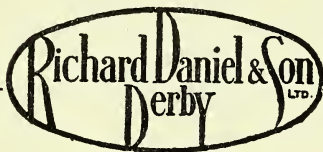
Steiner's EAU DENTIFRICE

Write for details of other parcels to Sales Office: DOBSON & STEINER LTD., 17, Old Bond Street, W.1
Regent 1191.



Galenicals of Repute

Used in pharmacies, hospital dispensaries and manufacturing departments throughout the industry, our galenicals enjoy a reputation of which we are proud. The skill of our technicians is at your service.



MANUFACTURING CHEMISTS
ESTABLISHED 1860 - DERBY 4266-8

THE CHEMISTS' PRINTERS

FOR OVER SIXTY YEARS

THOMAS WAIDE & SONS, LTD.
KIRKSTALL HILL
LEEDS

In these trying times —



INDICATIONS

General fatigue and debility, hypertension, infective conditions, night blindness.

PACKINGS AND PRICES

80 tablets.. .. 3/4½
250 tablets.. .. 9/6
1000 tablets.. .. 30/7½

(Including Purchase Tax) **PATA** List

CAROVIT
BRAND
CHLOROPHYLL TABLETS

101 Great Russell St. LONDON, W.C.1

Telephone: MUSeum 2042-3

CONTINENTAL LABORATORIES LTD.

A Canda



REGD TRADE MARK

Product

EPHEDROL

BRAND

For the relief of **COLDS and CATARRH**

Recommend Ephedrol with confidence this Winter. Your customers will appreciate the quick relief it gives.

The patent nasal application bottle is infinitely better, safer and easier than a spray or dropper, and can be carried in handbag or pocket without fear of leakage.

RETAIL PRICES

1/8 and 3/4

Including Purchase Tax

TRADE PRICES

Excluding Purchase Tax

Small size :

1 doz. 12/- per doz.

3 doz. 11/- per doz.

Large size :

1 doz. 23/- per doz.

3 doz. 22/- per doz.

CLAY & ABRAHAM LTD., *Manufacturing Chemists,* LIVERPOOL, 1



BIOLOGICAL MBL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

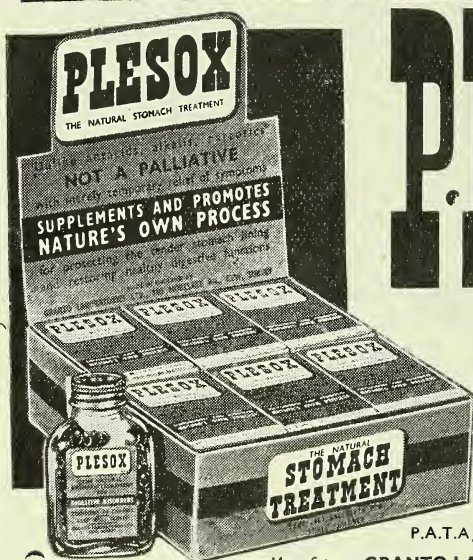
THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

| | | Retail Price | CHEMISTS' PRICE | | | | | | |
|--|--|-------------------------------|--------------------|-------|---|--------------|-------|---|--------------|
| | | | Per unit | | | Per dozen | | | |
| | | | (inclusive of Tax) | Net | + | Purchase Tax | Net | + | Purchase Tax |
| ANTIPEOL | | | | | | | | | |
| MENTMENT | | 4 oz. tube | 6/8½ | 4/2½ | + | 8½ | 50/5 | + | 8/5 |
| | | 40 gr. " | 3/4½ | 2/1½ | + | 4½ | 25/3 | + | 4/3 |
| | | 20 gr. " | 1/10½ | 1/2 | + | 2½ | 14/- | + | 2/4 |
| UID | | 40 c.c. bottle | 3/4½ | 2/1½ | + | 4½ | 25/3 | + | 4/3 |
| PHTHALMO-ANTIPEOL | | | | | | | | | |
| | | gr. Nozzled Tube | 3/4½ | 2/1½ | + | 4½ | 25/3 | + | 4/3 |
| RHINO-ANTIPEOL | | | | | | | | | |
| | | gr. Nozzled Tube | 2/9½ | 1/9 | + | 3½ | 21/- | + | 3/6 |
| INTEROFAGOS (ORAL AND INJECTABLE) | | | | | | | | | |
| | | Box of 50 ampoules | 19/- | 13/3½ | | None | 159/7 | | None |
| | | " 10 " | 4/3 | 3/- | | None | 35/8 | | None |
| | | " 5 " | 2/6 | 1/9 | | None | 21/- | | None |
| ETENSYL | | | | | | | | | |
| | | Box of 500 tablets | 39/- | 24/- | + | 4/- | 288/- | + | 48/- |
| | | Box of 50 " | 4/5½ | 2/8½ | + | 5½ | 32/4 | + | 5/3 |
| T. JAMES' BALM | | | | | | | | | |
| | | Box of approx. 2½ oz. | 2/10 | 1/11 | + | 4 | 22/6 | + | 3/9 |
| | | " " 1 oz. | 1/5 | 11 | + | 2 | 11/3 | + | 1/11 |
| | | Box | 1/2 | 9 | + | 2 | 9/- | + | 1/6 |

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, monthly account.

EDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25



PLESOX

TERMS: 33 $\frac{10}{100}$ — 2 $\frac{10}{100}$
Cash Discount 30%

Pass your Orders to your Wholesale
saler—but note Special Terms
attractive Display Outlets
Artistic Window Transfers, from

New Distributors:

MESSRS. SPLENDOR, LTD.
BEASTMARKET HILL, NOTTINGHAM

P.A.T.A.

Manufacturers: GRANTO LABORATORIES, 108 Mortlake Rd., Kew, Surrey

Retail Prices of New Bottle Packings: SMALL, 2/6 incl. Tax | LARGE—As long as Stocks
MEDIUM, 4/7 " " | 7/6 incl. Tax

FENNEL COUGH SYRUP

A particularly pleasant preparation, suitable for children and adults. Contains Ipecac., Tolu, Squills, Syr. Rhæoads, Glycerine, Syr. Rubr., Elix. Fœniculi (Damancy).

4-oz. bottles. Retail 2/- incl. Tax

MELOCAMP

A concentrated product (teaspoonful dose), containing Ipecac., Squills, Opii Camph., Syr. Papav., Syr. Aromat (Damancy).

4-oz. bottles. Retail 2/6 incl. Tax

BEECH TAR LINCTUS

A combination of Creosote and Codeine elegantly presented. Especially suitable in bronchitis, etc. (teaspoonful dose).

4 oz. bottles. Retail 2/6 incl. Tax

Extra discounts for 3, 6 and 12 dozen lots of any one product

Grams: Damancy-Harrow. Phone: Byron 1440

DAMANCY & CO., LTD.
HARROW MIDDLESEX

Always Sells!

THE LIVE LINE
WITHOUT A
DEAD SEASON-

Cuticura

OINTMENT

223

● Cuticura Ointment—and equally popular Cuticura Soap, Cuticura Talcum Powder and Cuticura Shaving Stick—are in demand from January to December. How are your stocks.

Your Pharmacy in the Atomic Age

One by one the vast advances of Science during the war years—of Penicillin, the Sulphamides, D.D.T. and a host of others are now being made known and will soon be reflected in the products on your shelves. But, it will be to you that your customers will still turn, as their guide, counsellor and friend on every-day troubles, to fill in the gaps of their scanty information.

It will be the policy of R. Demuth Ltd. to keep you abreast of "technics"—to explain the chemical "whys and wherefors" of their products and the practical "wills and won'ts" of their application. At the same time, the long-established reputation of this House for introducing products only of the highest quality and generally exhibiting some unique characteristics and technical development will be faithfully maintained.

What is

POMP
PERMANENT ODOURLESS MOTH PROOFER

Pomp is a double
action moth
proofers lethal
to moths and
grubs alike.

It is double action because it is the only product containing D.D.T.—Geigy ($\alpha\alpha$ -dichlorodiphenyl $\beta\beta\beta$ trichlorethane) and P.C.S. (a chloro substituted salicylic acid ester of hydroxy benzene). The action of the former is well known and the P.C.S. gives a moth proofing permanence which ensures full protection under all conditions (centrally heated premises) and for all expectations of common usage. P.C.S. also enhances the power of D.D.T. in the use of the latter against other insects. The P.C.S. and D.D.T. are dissolved in Xylol which is not more inflammable than white spirit but has greater penetrating and impregnating powers. As D.D.T. in Xylol is not suitable for applying to man or domestic animals we also market Pomp "D.D.T."—(Geigy) Powder in sprinkler top cylinders containing 4½ ozs. nett. of official full strength powder.

| | | | |
|--|---------------------------|---------------|-------------------|
| PRICES | { POMP MOTH PROOFER .. | 30/- per doz. | 3/9 each Tax Free |
| | { POMP "D.D.T." POWDER .. | 12/- " " | 1/6 " " " |
| | { METAL PUMP SPRAYERS .. | 30/- " " | 3/6 " " " |
| (Showstands supplied free with every order). | | | |

**BE SURE THAT YOUR PHARMACY STOCKS THE BEST
AND MOST ADVANCED PRODUCTS ONLY.**

Place your order now for forward delivery. We will accept order for sprayers up to 1 for 1 for Bottles of Pomp.

Obtainable from Messrs. Thos. Christy & Co., Ltd., Farnham, Surrey, or from the Manufacturers:—

R. DEMUTH LTD., FARNHAM, SURREY

Telephone: Farnham 5194

Telegrams: BOULBENE, FARNHAM, SURREY

BENGUE'S BALSAM

2/3 and 3/9 per tube

UNLIMITED SUPPLIES AVAILABLE

PULMO-BAILLY
PASSIORINE

AGOCHOLINE

The delay in executing orders for these two lines which is due to shortage of raw materials and bottles is much regretted. Every endeavour will be made to fill orders for urgent prescriptions.

Owing to shortage of sugar, this preparation is now only supplied in TABLET form.

BENGUE & CO., LTD.

Manufacturing Chemists,

MOUNT PLEASANT — ALPERTON — WEMBLEY

 **oravac**

ANTI-COLD COURSE

AN ANTI-CORYZA VACCINE FOR ORAL ADMINISTRATION

prepared from

SYMBIOTIC BROTH CULTURES

Bacillus Influenzae (Pfeiffer).

Anaeromyces bronchitica.

Influenza Streptococcus (Thomson).

Pneumococci (several types).

Haemolytic Streptococci.

Micrococcus catarrhalis.

Staphylococcus aureus.

Antiseptic Content 0.25% + Aq.Chlorof.

On P. A. T. A. terms

Literature available on request.



**CALMIC LIMITED, WESTHOUGHTON,
LANCASHIRE**



Weapons of PEACE!

Scholl Foot Aids are truly weapons of peace

They attack, and defeat, all those minor foot ailments which beset so many thousands of feet. Display Scholl's in your windows and on your counters, and you will attract the

attention of many a suffering worker, who will come in and exchange worry and pain for peace and freedom from trouble.

Such service is not only profitable—and backed by vigorous advertising—but it is a definite help to 'pulling through' this last hard lap. And if you combine your sales of Scholl's with helpful advice—it will be doubly so. We strongly recommend the products listed below. Write for price list.

ZINO PADS • TARSO PADS • FELT PADS *for corns, callouses, bunions*
2-DROP CORN REMEDY • BUNION LOTION *give prompt and lasting relief*

Scholl Manufacturing Co. Ltd. 182-204 St. John Street, London, E.C.1



**MEDICINAL PRODUCTS
OF
ANIMAL ORIGIN**



Chemist Counter Lines

**ARMOUR'S JUNKET PRODUCTS
(TABLETS, POWDER, ESSENCE)
GLANOID CALF'S FOOT JELLY
GLANOID BEEF EXTRACT
GLYCERINATED**

**A FULL RANGE OF GLANDULAR
PRODUCTS PREPARED FROM FRESH
WARM GLANDS SUPPLIED IN
AMPOULES, TABLETS, LIQUIDS
AND CAPSULES**

**available in Package Form
or Bulk Containers**

Also PEPSIN all strengths

PEPTONE

**both Bacteriological
and Commercial**

**ADRENALIN B.P. 1932
(Pure)**

PANCREATIN U.S-P

OX GALL **Inspissated
Powdered
Purified**

BILE SALTS POWDER

Send your enquiries to:

THE

Armour Laboratories

(ARMOUR AND COMPANY LTD., LONDON, ENGLAND)
THORNTON HOUSE · FINSBURY SQUARE · LONDON · EC2

Phone
Monarch 8044

Grams
"Armosata-Phone" London

KARMOID

The Pleasant

LAXATIVE TABLETS

C.F. and P.A.T.A.

Obtainable from all
Wholesalers in two
sizes to retail (including tax) at

1/5, 3/4½

or direct from

INTERNATIONAL LABORATORIES, LTD.

1/3, Smedley Street, London, S.W.8.

Estab. 1890

BROWN & FORTH, LTD.

Clifton House, Euston Rd., London, N.W.1

118 Chorlton Road, Manchester, 15

Offer—

GLYCERINE MONOSTEARATE

KAOLIN B.P.

TALC SUBSTITUTES

CAROB GUM

POWDERED GUM ACACIA

HYDRAGUM (EDIBLE)

SOLVENTS

POWDERED GUM KARAYA

CHEMICALS

A.B.



Plastic Presentation by

A • B PRODUCTS



Springlodge Works,
Manningham Lane,
Bradford

Phone & Grams 6548-9

Enquiries through Wholesale only

Some of the products are available now, but others serve to illustrate our post-war development. Wholesale enquiries welcome. Retailers should advise us of their usual wholesale supplier.

*there's a Good Name
behind them!*



SCRUBB'S

Paint & Enamel Cleaner

For all Paintwork, including Var-nished, Enamelled and Lacquered Surfaces. Simple, quick, thorough.

SCRUBB'S

Dry Cleaner

Quickly and completely removes spots, stains and dirty marks from Suits, Dresses, Hats, etc. Safe, reliable, easy to use.

Made by the makers of

**SCRUBB'S
CLOUDY AMMONIA**

Sole Distributors : CHEMICAL & NATURAL PRODUCTS LTD

WIMBLEDON FACTORY ESTATE, MORDEN ROAD, LONDON, S.W.1

M&B

Counter Products



'PLANACRINE' BRAND ANTISEPTIC LOZENGES

TRADE MARK



BOXES OF
40 LOZENGES

1/6

PLUS PURCHASE TAX

Supplies of the above
product are now
freely available and all
demands will be met.



manufactured by **MAY & BAKER LTD.**

P.A.T.A.

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., DAGENHAM

Why you should Sell **WANDER** BRAND **MALT & COD LIVER OIL**



OF UNSURPASSED QUALITY

THE supreme pharmaceutical excellence of Wander Brand Malt Extract and Cod Liver Oil, the outstanding preparation of its kind, has for many years been widely recognised by physicians.

The Cod Liver Oil used is the best obtainable and the malt extract is specially prepared by A. Wander Ltd., who are probably the world's largest producers of medicinal malt extract and are leading authorities upon its manufacture. These two ingredients are combined in the proportions most generally required by the medical profession.

Both in its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is readily acceptable to children and adults. In every respect it is a product which the pharmacist can recommend with the fullest confidence.

On the P.A.T.A.

Wholesale Prices: 1 lb. Jars 18/9; 2 lb. Jars 35/6

Exempt from Purchase Tax

Retail Prices: 1 lb. Jars 2/-; 2 lb. Jars 3/10½

For further details write to:

A. WANDER, LTD.
5 & 7 Albert Hall Mansions
London, S.W.7

URGENT
EMPTY
CASES
please

For some time past we have experienced considerable difficulty in despatching supplies of Andrews because of the acute shortage of cases.

**The position is
 NOW SERIOUS**

and unless customers holding Andrews empty cases return them immediately a hold-up in deliveries will result. Your co-operation is requested. Postage or carriage will be credited.

HOW TO SEND

Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/wd (*or state cost on label*).

ANDREWS

SCOTT & TURNER, LTD.
 Andrews House, Newcastle-upon-Tyne, 2

T9

Dettol

BRAND

Ointment

Effectively bactericidal yet non-irritant ; emollient and penetrative : combining these qualities 'Dettol' Ointment (*P-chlor-m-xylene*l and other active principles of 'Dettol') is ideally adapted to the treatment of septic conditions of the skin. Numerous case reports confirm its value in boils, impetigo, bed sores, herpes simplex, varicose and other ulcers, sycosis barbae and septic dermatitis.

Packed in 1-lb. jars for Hospital and Surgery use.

RECKITT AND SONS, HULL AND LONDON
 (PHARMACEUTICAL DEPT., HULL)

ACORIDINE

BRAND TABLETS

REGD. TRADE MARK

ANTIPYRETIC • ANALGESIC

The Ac. Acetyl. Salicyl. and Codeine Alk. base provides effective analgesia, either with simple Headache or Neuralgia, secondary reactions after Dental Operations, or any period pain including menstruation disabilities.

The stabilising sedative action of Codeine on the Cough Centre is complemented by the Ac. Acetyl. Salicyl., Calc. Lactate and Cinnamon additions, giving marked relief in Cough Irritation, Influenza, and Nervous Depression.

Packed in tubes of 20 tablets 2/3 per tube incl. Tax

Obtain ble from your wholesaler



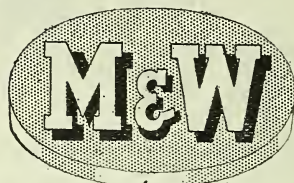
All enquiries to :—

Lewis & Melchior Ltd., 4, John Adam Street, W.C.2



Heris Pharmaceuticals Ltd., Welwyn Garden City

50 Years of Service



for
TABLETS & PILLS

LOZENGES • SUPPOSITORIES
AND GENERAL PHARMACEUTICAL
PREPARATIONS

Export Enquiries Invited

Matthews & Wilson, Ltd.

6-8 Cole Street, London, S.E.1

ESTD. 1894

Applied Before Work



Keeps Hands Clean

Limited Supplies now available
through recognised Wholesalers

Only Pack (Temporary) available
Tins retailing at 2/1d. including
purchase tax

Retail discount 25%

ROZALEX LIMITED

10, Norfolk Street, MANCHESTER 2

QUINPHOS BACK AGAIN

When quinine was in short supply, and before its use was prohibited, we felt it right to stop manufacturing Quinphos.

We did not want to put out an inferior substitute in order to keep up sales, so we took Quinphos off the market.

On February 1st next it will be back again, but in limited supply until further consignments of quinine are delivered.

The retail prices will be 1/5 and 3/5, including Purchase Tax.

For the past few years, we have made a Quinphos Brand Wartime Tonic Tablet to satisfy a certain demand, but, as the formula indicated, it was not a substitute for our well-known Quinphos.

In order to avoid any confusion in the future, we will take back and credit you for any stocks of Quinphos Brand Wartime Tonic Tablets which you may have on February 1st.

THOMPSON & CAPPER WHOLESALE LTD.
5a Speke Hall Road, Liverpool, 19

Telephone

Hunts Cross 1321

Telegrams

"Sanitas Liverpool"



"Hurrah for Spa" is the theme slogan of our 1945 advertising—in nationals, provincials, and general and women's magazines. It exactly describes the feelings of those who are lucky enough to be able to buy a "Spa" Toothbrush in these days of restricted production.

You cannot sell a better toothbrush than "Spa"

NYLON

Two Shapes: Long and Short head

Two Grades: Medium and Hard

Junior: 1/- plus 3d. P.T.

Adult: 1/6 plus 4d. P.T.

Trade: 8/4 and 12/1 per doz. plus P.T.

BRISTLE

Adult: 1/8 plus 4d. P.T.

Trade: 12/6 per doz. plus P.T.

JOHN FREEMAN & CO., LTD.
Chesham, Bucks & Walthamstow, London, E.17

Cheer-i-o
SAFETY
RAZOR BLADES

◆◆◆

Sole Makers...
The Wafer Razor Co. Ltd.
20 Hill Street, Sheffield, 2
PHONE 51824

WAX EMULSIFIERS

"AMBRESIL V.C." Creates a remarkably pearly white Vanishing Cream, imparting a perfect matt effect.

"AMBRESIL No. 4." The Premier Oil-in-Water Emulsifier for brilliant white cream preparations.

"AMBRESIL G.M." An interesting multi-purpose Wax Emulsifying Agent.

"AMBRESIL No 559." Produces a cold, cleansing and similar Cream, with the addition of water only.

WHITE OIL in 1 and 5 gallon Drums.

AMBRESIL LTD.

31 East Parade, Harrogate

RAW MATERIALS for the Cosmetic Trade

● PERFUME COMPOUNDS ● STEARIC ACID
● LANOLIN ● BEESWAX ● GLYCERINE
SUBST. ● GUMS ● SULPH. FATTY
ALCOHOLS ● EMULSIFIERS AND WAXES

From 1 lb. upwards.

BORYS BEAUTY PRODUCTS LTD.,
Trenmar Gardens, N.W.10. Ledbroke 0202.

LEDA DUSTING POWDER

A FINE BORATED POWDER, ATTRACTIVELY PACKED IN PINK AND BLUE SPRINKLER TINS

A SALES-COMPELLING SHILLING LINE YOU MUST KEEP IN STOCK

SUPPLIES OBTAINABLE FROM YOUR USUAL WHOLESALER

LEDA CHEMICALS LTD., ALPHA WORKS, ARCHWAY ROAD,
LONDON, N.19

Telephone: ARCHWAY 4544



POTTER'S ASTHMA REMEDY



Price 2/2 per Tin (inc. tax)

Wholesale 18/- per Doz., plus 3/- per Doz. Tax

Packed in half dozens

Well advertised and world famous

A sound selling line for every Chemist

POTTER & CLARKE LTD

60-64 Artillery Lane, LONDON, E.1.

and

77 Dantzic Street, MANCHESTER 4.

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two Parmints.

At the moment the ready for use Parment Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a bottle of the Parment Concentrated Essences.

All our press advertising features both Parmints, and mentions their prices.



and **PATA**

INTERNATIONAL LABORATORIES LTD.
1-3 SMEDLEY STREET, LONDON, S.W.3

A name worth remembering **SATINO Toilet Paper** (in Rolls or interleaved Sheets)

The product of paper specialists of world renown and made from the finest thin, absorbent tissue paper now permitted. The interleaved sheets are **SPECIALLY PROCESSED** to give a tough but super soft finish.

There is all the difference in
QUANTITY and QUALITY



FLORISTA BRAND SATINO is one of the famous FLORISTA brand of domestic paper products made by **FREEDER BROTHERS PAPER MILLS**
50 Brimsdown, Enfield, Middlesex

Registered

FRAGRANT TONIC HAIR CREAM

MAKES THE HAIR BEHAVE

MY LADY'S VANISHING CREAM

For loveliness and charm—Delicately perfumed.

Setting Lotion, Solid Brilliantine, Brilliantine, Cold Cream, Cleansing Cream, Antiseptic Balm.

LABELS FOR THESE LINES—6/- per gross.

PERFUME—COLOURING—BOTTLES—JARS.

EMULSIFIERS—Needing hot water only to give excellent preparations as above. Send stamp for details to—

BRICCAS LIMITED

4 CAVENDISH PLACE, LONDON, W.1

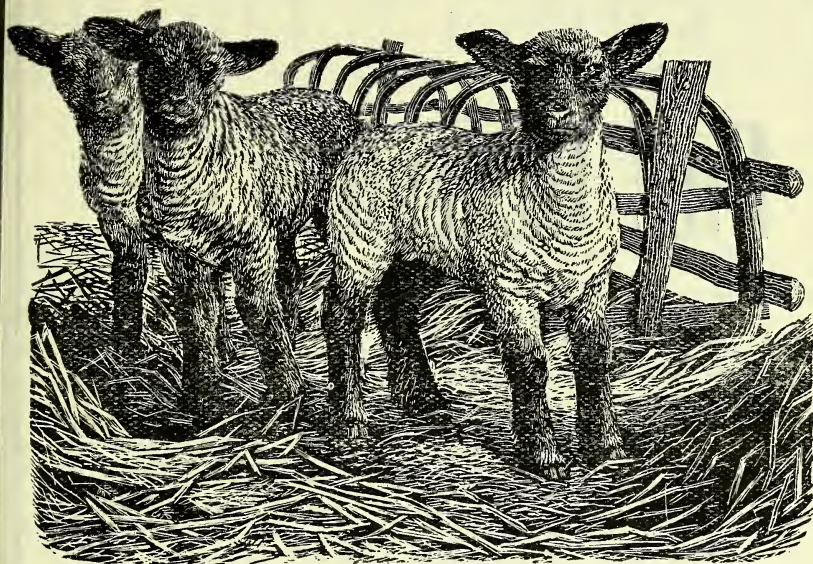
BIOCRIN POMADE TREATMENT SHAMPOO

A FAST SELLING, QUICK REPEATING
AND HIGHLY PROFITABLE LINE

SHOW MATERIAL SUPPLIED

VINES LABORATORIES
HARROW ROAD, PADDINGTON, W.

L A M B D Y S E N T E R Y



EACH lambing season brings a big demand for lamb dysentery serum. Safeguard your share of this valuable business by supplying 'Wellcome' brand Lamb Dysentery Serum — a product of proved dependability.

'WELLCOME' BRAND

LAMB DYSENTERY SERUM

Price to the trade (Subject): 100 c.c. 13/4
Supply to farmers on special quantity
terms, 8 bottles 12/9 each, 15 bottles 12/6
each, 30 bottles 11/9 each.



Prepared at:
THE WELLCOME
PHYSIOLOGICAL RESEARCH
LABORATORIES

BURROUGHS WELLCOME & CO. LONDON
(THE WELLCOME FOUNDATION LTD)

PILE REMEDIES . . . ?

OINTMENTS AND SUPPOSITORIES

VARIOUS FORMULAE OF PROVED
MERIT

A VARIETY OF ELEGANT PACKS

CUSTOMER'S OWN NAME AND
ADDRESS CAN BE PRINTED ON
LABELS

. . . . **WARRICK** **BROS LTD**
6 NILE STREET LONDON N



The

CHEMIST AND DRUGGIST

For RETAILER — WHOLESALE — MANUFACTURER

Published Weekly at

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London"

Telephone: Central 6565 (10 lines)

CONTENTS

| | Page | | Page |
|-------------------------------------|------|--|------|
| Business Changes | 71 | Penicillin Dispensing Demonstrations ... | 83 |
| Coming Events | 95 | Personalities | 71 |
| Committee on Shop Hours | 82 | Pharmaceutical Society of Great Britain:— | |
| Company News | 68 | Council Meeting | 78 |
| Deaths | 71 | Examination Results | 79 |
| Editorial Articles:— | | Pharmaceutical Society of Ireland:— | |
| Canvassing By-Law Doubts | 81 | Council Meeting | 89 |
| Trade and Employment Conference ... | 81 | Proprietary Articles Trade Association | 76 |
| Harrison Memorial Lecture | 74 | Surface Activity (Part I) | 86 |
| Madagascar Vanilla Exports | 88 | The Late Sir Thomas Robinson | 72 |
| Marriages | 71 | Topical Reflections | 69 |
| New Year Honours | 68 | Trade Marks | 96 |
| News of the Week | 65 | Trade Notes | 70 |
| Official Notices | 67 | Trade Report | 92 |
| Overseas Trade News | 91 | Vitamin B ₁ Potency Standard | 73 |

NEWS OF THE WEEK

Minister's Overtures to Pharmacists.—The Minister of Health (Mr. Aneurin Bevan), indicated that he wishes to receive a delegation of pharmacists to discuss their attitude to the new health service.

F.B.I. Financial Proposals.—The Federation of British Industries has sent to the Chancellor of the Exchequer a statement on national financial policy. The Federation suggests that excess profits tax and national defence contribution should be abolished without substituting any new tax on industry alone. The budget, it is claimed, could be split to distinguish between capital account and revenue and expenditure account, a principle universally followed in business. The results of nationalised industry should be presented to the public in intelligible form on the basis of normal commercial accounts and all nationalised industries should make their fair contribution to the national finances. The need for economy in unproductive national expenditure is also stressed.

Proprietary Infant Milk Foods.—The Minister of Food has appealed to retailers

of infant milk foods to restrict their sales of these foods to people who need them for feeding to babies. During the winter when supplies of liquid milk are at a low level there is a temptation for people to try to obtain these foods for general household purposes and substantial increases in purchases of this kind might prevent those who really need them from getting sufficient supplies. They might also cause an undue demand on raw materials and production facilities. Retailers of these foods are therefore asked for their help in restricting their sales to persons producing an R.B.2 (child's) ration book on which the date of birth shows that the child is under two years of age.

Anglo-Belgian Industrial Conversations.—The delegation of the Central Industrial Committee of Belgium arrived in this country on January 14 for talks with the Federation of British Industries. These first trade talks since the war between representatives of British and Belgian industry will give an opportunity to survey major economic problems facing both

countries and, no doubt, will be followed at a later date by conferences on more specific issues between representatives of the particular industries concerned.

Eire Wages Increase.—Under an agreement reached between the Irish Drug Association and Chemists' Assistants' Branch of the Irish Distributive and General Workers' Union, an increase in the pay of male employees by 5s. weekly, and of female employees by 4s. a week, is being paid from January 14.

Hull Children's Party.—Mrs. E. A. Brocklehurst (president of the Hull Chemists' Association and local branch of the Pharmaceutical Society) gave a Christmas party to the children of local chemists on January 3. The children were entertained with games. Mrs. Newton accompanied at the piano, and Mr. R. Pocklington gave a display of conjuring tricks. Tea and ice cream were provided.

Pharmacist Mayor's Entertainment.—An entertainment given by the mayor of Burnley at Calderstones Military Hospital on January 8 was sponsored by Burnley Branch of the Pharmaceutical Society, of which the mayor (Councillor R. Hudson, M.P.S.) is a member. Mr. J. L. Cook (secretary) was responsible for the event; he was assisted by other officers and their wives. Tea, ice cream and cigarettes were provided for the hospital patients.

Talk on Allergy.—At a recent meeting of the No 10 Staffs Branch of the Pharmaceutical Society, Mr. C. Beaven, Ph.C., spoke on "The Riddle of Allergy." The speaker treated in detail the mechanism of experimental anaphylaxis and clinical allergy, antigens, antibody theory, operating factors, drug and physical allergies and the histamine theory, diagnosis and treatment of allergic conditions, and the biological significance of allergy. Discussion followed.

Land for Company's Development.—The Estates Committee of the Nottingham City Council recommended on January 7 that the freehold of 12,764 sq. yd. of land in Station Street and Parkinson Street, Nottingham, should be sold to Boots Pure Drug Co., Ltd., for £60,000. The land is at present leased to the company, and it is understood to be the intention of Messrs. Boots to erect offices, a welfare department and a printing works so soon as building conditions permit.

Women Pharmacists' Dance.—About 140 members and friends of the National Association of Women Pharmacists attended a

dance in London on January 9, when J. Goodwin, husband of one of the members acted as M.C. The Pharmaceutical Society was officially represented by Mrs. J. Irvine, M.B.E., and Miss M. C. Is (members of Council), and by Miss Mozley-Stark (president of the Association). Those present included Mr. Arthur Mortimer, O.B.E.

New Year Party.—The West Middlesex Chemists' Association recently held a New Year's dinner and party under the chairmanship of Mr. A. F. Weston (president of the Association). The toast "Our visitors" was proposed by the president, who welcomed Mr. and Mrs. Ivor Jones, Streatham, representing the South-west London Chemists' Association. Mr. F. G. Weston (immediate past-president of the Pharmaceutical Society) proposed the health of the chairman. The duties of M.C. were shared by Mr. G. Mooney (social secretary) and Mr. Ivor Wood.

Limerick Visit.—Mr. Lyall G. Smith (president, Irish Drug Association) went with Mr. B. R. Smith (organiser) to Limerick recently to attend a meeting of the Limerick Retail Chemists' Association. Mr. G. Riordan presided. Mr. Lyall Smith dealt with the powers of the I.D.A., the approved list, action against wholesalers who contravened the agreement, and work of the joint committee. Mr. Brendan Smith spoke on the need for loyalty amongst the members both to their own local Association and to the I.D.A., and gave an account of the working of the other local Associations. Mr. Lyall Smith summarised the proposed new Public Health Bill as it applied to chemists, and the working of the tuberculosis scheme in Dublin. He stressed the need for local Associations consulting the I.D.A. committee in Dublin before entering into agreements. Mr. P. J. Hogan was appointed to represent the Association or the Limerick Branch of the Irish Red Cross Anti-T.B. Committee.

Association for Scientific Photography.—An address on "The Organisation of an Industrial Photographic Unit" was given to the Association for Scientific Photography, by Mr. C. W. Bradley, F.R.P.S., in London recently. He pointed out that it was essential to have such a department under the supervision of a person trained to think photographically and apply the various techniques scientifically. At least two rooms should be allocated to the unit, one a studio and the other a dark-room. The size of the studio depended upon the largest

ect likely to be photographed in it. The
ls should be of a matt light neutral
de. Chemicals should not be stored or
pounded in the dark-room. In the studio,
re should be sufficient light of one type to
otograph adequately any object in colour
eed be. For most work a half-plate camera
as suitable size to use. It should be capable
a long extension, have the usual motions,
rigid under all conditions, and mounted
a firm tripod preferably with pan and
head. No unit should be considered
mplete without a good 16-mm. ciné
mera.

Manchester Joint Meeting.—A meeting
of the Manchester Branch of the Guild of
Public Pharmacists, held jointly with the
Manchester Pharmaceutical Association and
Branch of the Pharmaceutical Society was
held on January 3, Mr. W. E. Phillippson in
the chair. Dr. J. Ghosh, in a lecture on
"anæsthesia," surveyed the use of pain

relievers down the ages to the discovery of
ether. He followed with an explanation
of the different types of anæsthetics used in
surgery and the methods by which they
were administered. The lecture was illus-
trated by lantern slides. Mr. J. B. Lloyd
(secretary to the local branch of the Guild)
invited pharmacists to attend a demon-
stration of the preparation of penicillin
cream at the pharmaceutical departments
of Ancoats Hospital, Crumpsall Institution
and Salford Royal Hospital. Pharmacists
who wish to take advantage of the invita-
tion should get in touch with the chief
pharmacist at one of the hospitals and
arrange a convenient date. Mr. Lloyd said
hospital pharmacists wished to place their
experience at the disposal of their colleagues
in retail practice. The president of the
Association (Mr. W. Wilkinson) expressed
members' appreciation and thanks for the
invitation.

OFFICIAL ANNOUNCEMENTS

Soap Rationing.—Coupons available dur-
ing ration period 7 are the two upright pairs
of small squares, K25/26 and K27/28 on
page square 7; coupons in R.B.1, R.B.2
and R.B.4 ration books are each worth two
ounces of soap.

Availability of Dried Bananas.—A state-
ment by the Minister of Food announces
the termination of arrangements made in
conjunction with the War Organisation of
the British Red Cross Society and Order of
St. John, to render available, free of cost,
to persons suffering from steatorrhoea,
(including coeliac disease and tropical sprue)
supplies of dried bananas. To ensure that
regular and adequate supplies of dried
bananas may be obtained by such patients,
the Ministry has made arrangements with
Mapleton's Nut Food Co., Ltd., to supply
dried bananas direct at the rate of 14 lb.
monthly at 9½d. per lb., post free. Applica-
tions for supplies should be made to the
company at Garston, Liverpool, 19, and
should be supported by a medical certificate
and accompanied by a postal order. Sub-
sequent supplies will be obtainable without
renewal of the medical certificate.

Sugar for Bee-feeding.—Food executive
officers have been authorised to accept
applications from bee-keepers for an allow-
ance of honey, not exceeding 5 lb. per
colony, during the period January 15 to
May 31. Application for permits must be
made on official forms obtainable from local
offices.

Sending Gifts Abroad.—A joint announce-
ment by the Treasury and the Board of
Trade gives the following information about
sending gifts of money and goods to over-
seas destinations. No money gifts should
be sent outside the Sterling area. Money
goods may be sent to destinations within
the Sterling area (i.e., to the Empire other
than to Canada and Newfoundland, as well
as to Egypt, Anglo-Egyptian Sudan, Iraq,
Iceland and the Faroe Islands). Goods
should be sent by bank transfer or by postal
or money order where the service is in
operation; bank notes should not be sent.
Recent relaxations of exchange control and
export licensing restrictions to permit
Christmas gifts to be sent abroad are being
continued in a modified form; individuals
in Britain may send goods to private
persons abroad as *bona-fide* gifts by parcel
post, where parcel post service is in
operation, provided that the total value of
the goods in the parcel does not exceed £5,
and that the parcel does not include any of
a specified range of goods, among them the
following: Foodstuffs, soap, sheeting of
compounded rubber of a thickness of ½ in.
or more, seeds (other than flower seeds),
napkins of all kinds. Post Office regulations
must be complied with, and the usual
Customs declaration must be marked
"Gift," completed to show the description
and value of the contents, and signed by
the donor. Provided the conditions are
fulfilled, no application need be made for
permission to send the parcel.

COMPANY NEWS

MAURE CHEMICALS, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, etc. Robert E. Nuttall, director. R. O.: 9 Arundel Street, London, W.C.2.

JASCO, LTD. (P.C.).—Capital £500. Manufacturers, importers and exporters of and dealers in medicinal goods, cosmetics, etc. Abraham and Jack Shinder, and Solomon Saunders, directors. R. O.: Callard House, 74a Regent Street, London, W.1.

ALOPECINE MANUFACTURING CO., LTD. (P.C.).—Registered in Dublin. Capital £5,000. To acquire the business of a hair lotion and cream manufacturer now carried on by Malachy D. O'Callaghan, at 11 South Circular Road, Kilmainham, Dublin. Malachy D., James G., and Malachy J. O'Callaghan and Andrew Byrne, directors.

C. J. HEWLETT & SON, LTD.—Mr. F. J. M. Gibbons, who has been secretary of the company for over twenty-five years, has retired after forty-six years' service. Mr. B. Richards, F.C.I.S., F.L.A.A., F.R.Econ.Soc., has been appointed general manager and secretary.

AYRTON, SAUNDERS & Co., LTD.—Mr. George Dalrymple, F.C.S., has been appointed chairman of directors, and the vice-chairman is Mr. Alfred Chapman. Mr. Bertram C. Lewis has been appointed managing director, and Mr. Norman Marsh, F.R.I.C., M.P.S., has been appointed to the Board as a junior director.

VOLUNTARY WINDING-UP.—I.C.I. (General Chemicals), Ltd., I.C.I. (Explosives), Ltd., and I.C.I. Metals, Ltd., are to be wound up voluntarily, the liquidators being Mr. C. F. Bristol, of I.C.I. (General Chemicals), Ltd., Cunard Building, Liverpool, Mr. J. A. Pitkethly, of I.C.I. (Explosives), Ltd., Nobel House, Stevenston, Ayrshire, and Mr. G. Norton, of I.C.I. Metals, Ltd., Kynoch Works, Witton, Birmingham, respectively.

VOLUNTARY WINDING-UP.—The creditors of Cameron's Surgical Specialities, Ltd., are required, on or before January 21, to send in their names and addresses, with particulars of their claims, and the names and addresses of their solicitors (if any), to the Liquidator, Mr. A. C. Towers, 15 Guildhall Road, Northampton. A general meeting of the above company will be held at 5-6 Bucklersbury, London, E.C.4, on February 5, at 11.30 a.m., to show how the winding-up has been conducted.

NEW YEAR HONOURS

THE second part of the New Year Honours list contains the following names of persons appointed Officers of the Civil Division the Order of the British Empire:—

MR. DAVID ANDERSON (chemical engineer, Imperial Chemical Industries, Ltd.)
JOHN HARVEY BAILEY (works manager, Negretti & Zambra, Ltd.).

DR. JOHN PHILIP BAXTER (Department of Scientific and Industrial Research.),

DR. GEOFFREY B. HARRISON (Director Research, Ilford, Ltd.),

PROFESSOR R. G. D. ALLEN, D.Sc. (late head of the United Kingdom statistical division, Combined Production and Resources Board),

MR. JOSEPH BRADLEY (senior scientific officer, National Physical Laboratories),

MR. EDWARD ROY DAVIES (director of research, Kodak, Ltd.),

MR. J. F. E. GILCHRIST (executive head of the trading department, United Kingdom Commercial Corporation),

MR. JOHN MCLEOD (chief representative in Turkey of the United Kingdom Commercial Corporation),

MR. CHARLES WATT MILES (chief representative in India of the United Kingdom Commercial Corporation),

MR. F. M. MEDHURST (managing director, T. J. Smith & Nephew, Ltd.),

MR. THOMAS PROUDFOOT (manager of the surgical and hospital equipment department, Savory & Moore, Ltd.),

MESSRS. FREDERICK HENRY ROLT and WALTER STANLEY STILES (principal scientific officers, National Physical Laboratories).

MR. F. E. WHITFIELD, M.P.S. (proprietor of Male & Co., chemists, 167 King Street, Great Yarmouth and Commandant of the Great Yarmouth Special Constabulary),

MR. HAROLD E. SNOW (secretary, Petroleum Board, and formerly a director, Price's Patent Candle Co.).

The following were awarded the British Empire Medal:—

MR. GEORGE BERRY (foreman of the mechanical engineering department, Halex, Ltd.),

MR. SYDNEY HELLIER (Air-raid Precautions officer in the works of Howards & Sons, Ltd., Ilford),

MISS ELLEN MATTHEWS (in recognition of her work in the production of combs at Halex, Ltd.),

MR. REG. E. TWELVES, M.P.S., Newbold, nr. Chesterfield (First-aid Commandant in the Chesterfield Casualty Service),.

TOPICAL REFLECTIONS

Industrial Reconstruction

Your return to your headquarters after an absence of more than six years—a matter for hearty congratulation—is marked by the publication in abstract (pp. 51-55) of an important address by Sir John Anderson. Taking as his subject "Science and Reconstruction," the ex-Chancellor of the Exchequer spoke with the twofold authority of a financial administrator and a post-graduate worker in physical chemistry. However busy we may be, all of us are the better for reading with interest this lucid discussion on problems that in varying degree affect our well-being. Several times in the course of the abstract statement of something so familiar as to seem a truism is followed by an explanatory sentence that throws a new or unfamiliar light on the topic. Thus, in stressing the need (the obvious need, if the reader prefers) for a higher level of efficiency in industry, Sir John added a significant remark on the disadvantage that "the exports which are necessary in order to pay for vital supplies of food and raw materials are so much greater in relation to the corresponding home demand than in the case of either the U.S.A. or the U.S.S.R." Personnel, finance and organisation formed the three headings of the address. Regarding the first of these headings I need only note the fact that the number of scientifically trained people coming recently from our universities and other teaching establishments compares unfavourably, even after allowing for the difference in population, with the corresponding number in the United States. Regarding the second heading, I welcome the statement that so far as finance is concerned, "there is now a framework within which all that is required can be secured."

Organisation of Resources

This brings us to Sir John Anderson's final heading, organisation. One negative conclusion may be mentioned first: he unhesitatingly rejected a much-repeated suggestion that a Minister of Science should be added to the formidable list of Government ministers. As the speaker justly pointed out, such an addition could only lead to confusion. He added: "But that does not mean that I should be content with things as they are." Space does not permit either an analysis of the relevant changes (p. 54) or a mention of all the details given in the address. It must

suffice to record that a continuance of the war-time Scientific Advisory Committee on a peace-time footing is envisaged, and that the setting up of a new section of the Cabinet secretariat to assist the Lord President of the Council in his new duties is recommended. One of the most timely features of the address is the caution against wasteful overlapping. To prevent this, it is suggested that industrial associations should establish special committees for the purpose of discussing long-term programmes of research with representatives of the universities and of the Government research organisations. That these and other practical points are based on the double foundation of scientific knowledge and administrative experience is clear from the concluding passage of the abstract where some of the implications of the harnessing of atomic energy for industrial use are indicated.

Success in Retail Business

The article by a retired pharmacist, modestly entitled "Some Elements of Success" (p. 43), is packed with good sense, and should command itself to every recently qualified pharmacist who is contemplating a career as the proprietor of a pharmacy. May I briefly underline a few of the "elements" referred to? It will be a bad day for this country if and when the spirit of adventure proper to youth dies out and young pharmacists decline to give a thought to ownership. But before deciding to take the plunge, it will be wise to gain enough experience, and to gain it in more than one type of business. The assistant who has in him the making of a successful proprietor will know when the experience is sufficient. On the choice of district and of the better side of a street the points are put concisely. The author then comes to the interior of the shop. Occasionally I have seen a chemist sitting, as here recommended, on a customer's chair in his own shop and looking round: he may have been getting a shock in the way indicated by your contributor. An even better idea, perhaps, is to persuade a candid friend to undertake the sitting. Close attention to routine is another virtue wisely recommended; "perfection is made up of tricks," as we have been told. The often tedious business of dealing with complainants and the parallel difficulty of being tactful with doctors are well discussed.

Xrayser

TRADE NOTES

Quinine Again.—Howards & Sons, Ltd., Ilford, announce that they are now in a position to supply quinine subject to licence from the Ministry of Supply.

New Evans' List.—Evans Medical Supplies, Ltd., Liverpool, have issued a new edition of their "A" price list, dated January, 1946. The list follows its predecessors in style.

In Full Supply.—British Schering, Ltd., 185-90 High Holborn, London, W.C.1, point out that the British Schering products, with very few exceptions, are in full supply. A price list will be sent to any chemist on receipt of a penny stamp to comply with the paper restrictions.

Visitor from India.—Mr. J. M. Vora, proprietor of the Eastern Mercantile Co., importers and exporters, Bombay, India, is visiting this country to contact manufacturers of chemical and pharmaceutical preparations. Mr. Vora's address is the Imperial Hotel, Russell Square, London, W.C.1.

Quinphos Returns.—Thompson & Capper Wholesale, Ltd., 5a Speke Hall Road, Liverpool, 19, announce that Quinphos will be again available on February 1, in two sizes at prices given in an announcement by the makers on another page. The manufacturers will exchange for Quinphos retailers' stocks of Quinphos brand war-time tonic tablets in stock on that date.

Unlimited Supplies Available.—Bengue & Co., Ltd., manufacturing chemists, Mount Pleasant, Alpertown, Wembley, announce that unlimited supplies are now available of Bengue's balsam; every endeavour will be made to fill orders for urgent prescriptions for Pulmo-Bailly and Passiorine. Owing to shortage of sugar, Agocholine is at present being supplied in tablet form only.

International Year Book.—The International Merchantile Diary and Year Book, 1946 (25s. post free) contains 285 pages of commercial information of particular value at the present period of trade recovery. Fifty-three diary pages are provided with ample space for every day of the year. The publishers are Syren and Shipping, Ltd., 26-28 Billiter Street, London, E.C.3.

New Ergot Preparations.—Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, have introduced Partergine, a semi-synthetic methyl ergometrine. The product

is an oxytocic for use in the first and second stages of labour and is not employed as uterine haemostatic. It is claimed to without action on the sympathetic nervous system and to exert no pressor effect. Another speciality introduced by the company is DHE-45, the laboratory number di-hydro-ergotamine, a vasoconstrictor and an inhibitor of the sympathetic nervous system. The product finds application in cases of hyperexcitation and particularly the treatment of migraine. The product have been prepared in the Sandoz research laboratories by Stoll and co-workers. Further particulars may be obtained on application to the company.

Precision Camera-shutter.—A precision shutter, which has been designed and being produced by Taylor, Taylor Hobson, Ltd., Leicester, is likely to make good a lag that has hitherto existed between the progress of the camera industry in this country compared with that of certain other countries. The new shutter, the Talykron, is an instrument of high and consistent accuracy, secured through the short opening and closing times (less than 0.002 second) of the shutter blades. Prototypes have been made and tested on equipment using a double-beam oscilloscope. Repeated tests made on each shutter show that the exposure times are uniform within close limits—a consistency resulting from careful selection of material and high finish of moving parts. If, for any purpose, such as cleaning, the shutter has to be dismantled, the locating shoulders and screw threads on the front and back of the shutter remain, on reassembly, true to one another within 0.0001 in. The range of shutters it is intended to produce have iris and shutter apertures of 18, 24, 30 and 36 mm. diameter respectively, and the speeds of the small models are 1, $\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{10}$, $\frac{1}{20}$, $\frac{1}{40}$, $\frac{1}{80}$, and $\frac{1}{160}$ sec., with "time" and "bulb." In addition, the larger models have built-in delayed-action control, or a synchro-flash exposure unit. All models may be set for time and bulb as well as for instantaneous exposures, and the shutter setting may be coupled to the film-winding mechanism of the camera if required. The release lever is arranged so that it cannot be depressed until the shutter has been set.

Proprietary Articles Trade Association

Alterations to Protected List.—H. W. Carter & Co. Ltd., Ribena black currant syrup, 2s. 5d. 23s. 2d. doz. (exempt from tax). Prices are controlled by Ministry of Food under war-time conditions.

BUSINESS CHANGES

MR. W. A. S. STEVENS, son of the late W. S. Stevens (see "Deaths") is continuing the businesses of W. Stevens & Co., manufacturing chemists, and the Radiol Co., Upper Richmond Road, London, S.W.15.

THE telephone number of the Dales Pirin and Tableting Co., Barrows Lane, Eton, Keighley, has been changed to Eton 3222.

THE WAR DAMAGE COMMISSION has appointed Mr. H. B. Usher to be Deputy Secretary. The following appointments and transfers of regional managers are also effected:—Region 2 (Leeds), W. A. Jones (acting); Region 4 (Cambridge), A. W. Dundale; Region 5B (City of London), B. Jacques; Region 5C (Euston), Resher (from February 28); Region 6 (Reading), A. E. Moody (from March 31); Region 9 (Birmingham), A. H. W. Abbott; Region 12 (Tunbridge Wells), V. P. Connor.

PERSONALITIES

DR. R. CLITHEROW, M.P.S., proprietor of a number of chemists' shops in Liverpool, and holder of the London Society of Apothecaries' diploma in medicine, has won qualified L.R.C.P., M.R.C.S.

MR. G. E. TREASE, B.Pharm., Ph.C., R.I.C., has been appointed Head of the School of Pharmacy, University College, Nottingham, in succession to the late Mr. O. Bentley.

SIR CLIVE BAILLIEU, K.B.E., C.M.G., was nominated on January 9 for a second year of office as president of the Federation of British Industries. The nomination, which was unanimously approved, will come before the annual general meeting of the Federation in April.

DR. ROLAND E. SLADE has retired from the position of controller of research activities, Imperial Chemical Industries, Ltd. Dr. Slade was born at Sandbach, Cheshire, in 1886. He became a lecturer in physical chemistry, first at Liverpool and later at the University of London. In the war of 1914-18 he served in the Special Branch, R.E. (Gas), was awarded the Military Cross and demobilised with the rank of Captain. He then became a director of the British Photographic Research Association, and in 1920 was appointed research manager of the newly-formed Synthetic Ammonia and Nitrates, Ltd., Billingham-on-Tees, of which he later became managing director.

MARRIAGES

ANGUS—FAULKNER.—On December 28, 1945, Arthur B. Angus, Ph.C., High Street, Donaghadee to Norah P. Faulkner, Ph.C., 29 Ormonde Park, Finaghy, Belfast. Mr. and Mrs. Angus will live at 28 Marine Parade, Hollywood, co. Down.

MACWHIRTER—HUDDART.—At Victoria Street Congregational Church, Blackburn, recently, John Philip MacWhirter, Weston-super-Mare, to Corporal Margaret W. Huddart, A.T.S., daughter of Councillor J. W. Huddart, J.P., M.P.S., West Park Drive, Blackburn.

DEATHS

ARMITAGE.—In December 1945, Mr. William Tyrrel Armitage, M.P.S., c/o E. Watson & Co., Ltd., 100 Mitcham Road, Tooting, London, S.W.17. Mr. Armitage qualified in 1901.

BLAKEMORE.—On January 2, Mr. John Bowen Blakemore, M.P.S., 5 Abbey Crescent, Warley, Birmingham, 32, aged eighty.

BELLAMY.—At the Oxford Eye Hospital, on January 13, after a long illness, Alderman C. J. V. Bellamy, J.P., M.A. (Oxon), Ph.C., sometime mayor of Oxford and president of the Oxfordshire Pharmaceutical Association, aged sixty-five. Alderman Bellamy was born at Grimsby, educated at Caistor Grammar School, and served his apprenticeship at Sheffield. He qualified in 1902. After experience in Monte Carlo and Paris, he acquired the business of late Dr. Claridge Druce, Oxford, later opening branches in several parts of the city. He was actively engaged in the business until 1939. He was chairman of Oxford Eye Hospital, an ex-president of the Rotary Club, and a former president of the Chamber of Trade. Alderman Bellamy was an active Freemason, having been on two occasions W. M. of Annesley Lodge and a senior member of Alfred Lodge.

EVANS.—On December 30, 1945, Mr. Harry Bertram Evans, M.P.S., 315 Edgware Road, London, W.2, aged fifty-three.

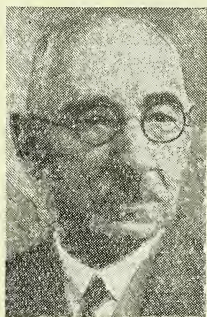
FOX.—On January 1, Mr. Robert Fox, M.P.S., 16 Mountfields Drive, Loughborough, aged sixty-nine.

HUME.—On January 11, Mr. Robert Fawdington Hume, Stockport, for many years on the staff of Bayley, Clanahan & Co., chemical merchants, Manchester. The funeral took place on January 14.

STEVENS.—Recently, Mr. W. S. Stevens, principal of W. Stevens & Co., manufacturing chemists, 78 Upper Richmond Road, London, S.W.15.

THE LATE SIR THOMAS ROBINSON

THE death of Sir Thomas William Robinson at his residence, 10 Herbert Park, Dublin, Eire, on January 8, removes from Irish pharmacy one of its most distinguished and notable figures.



Sir Thomas was the doyen of the profession and for well nigh half a century an outstanding man in Irish public life. He was a member of the Council of the Pharmaceutical Society of Ireland, and had attended its meetings up to the early part of 1945, his last appearance at a major pharmaceutical function being at the

annual dinner of the Irish Drug Association on January 9, 1945. Born in Limerick in 1864, Sir Thomas was the son of an Ulsterman. He entered pharmacy in 1879 when, at the age of fifteen, he began his apprenticeship as an apothecary with Dr. Scott, Dundalk. From there he went in 1883 as an assistant to John Laird, Limerick, subsequently joining the staff of the late John Evans, Dawson Street, Dublin. In 1886 he qualified as a Pharmaceutical Chemist, and three years later went into business on his own account when he acquired the branch business of John Evans at Kingstown. In 1897 he linked up with the late Mr. William Hayes and the late Mr. Henry Conyngham to found the business of Hayes, Conyngham & Robinson, Ltd., of which he was chairman at the time of his death. The company today has some twenty branches in Dublin city and county. Despite his activities in public affairs, Sir Thomas took, throughout his business career, the closest interest in the work of the Pharmaceutical Society of Ireland, and of the trade body. Of the Society he was vice-president, 1891-92, and president, 1938-40; he also acted as an examiner in pharmacy. Sir Thomas was one of the pioneers of the Dublin and Provincial Retail Drug Association (forerunner of the Irish Drug Association) in May 1909, and was its first president.

Wide Public Interests

Sir Thomas Robinson went into public life first as a member of the Kingstown Urban Council in 1894. As its chairman in 1900 he was the first public representative to receive Queen Victoria on her visit to

Ireland, and he was knighted shortly after. In 1903 he had the honour later of being received by King Edward VII, and in 1911 by King George V. In 1900 he was made a Justice of the Peace for county Dublin. With the rapid development of the business Sir Thomas removed to Dublin in 1911 and in the years that followed, his business interests continued to widen. He became chairman of Millar & Beatty, Ltd., Metropolitan Hotels, Ltd., and the Pavilion Gardens, Kingstown; he was also a director of Williams & Woods, Ltd., and the United Drug Co., Ltd., Nottingham. His public activities in Dublin were manifold. He was a member of the Dublin Corporation, president of the Dublin Rotary and Publicity Clubs, and honorary president of some twenty years of the United Kingdom Commercial Travellers' Association. Always a fluent speaker, he was particularly effective as an after-dinner raconteur. A devoted member of the Church of Ireland, he was a member of its General Synod. His sporting interests lay in yachting and golf, and he was a member of several Dublin clubs, including the United Services Club, Stephen's Green. Sir Thomas was twice married, first in 1890 to Lucie Floren Smith, daughter of the late Mr. Humphrey Smith, J.P., Mountmellick, and secondly to a daughter of the late Mr. Charles Key Liverpool. His elder son, Mr. Frederick Robinson, L.P.S.I., is a director of Hayes Conyngham & Robinson, Ltd. A daughter (Mrs. Bedworth) resides in England.

There was a large and representative attendance at the funeral which took place on January 11 from St. Ann's Church, Dawson Street, Dublin, to Dean's Grange Cemetery. The large attendance at the obsequies included the Lord Mayor of Dublin (Alderman P. Doyle, T.D.), Senator Dr. W. R. Fearon, Dr. C. Walsh, T.D., Messrs. J. K. Whelehan (president, Pharmaceutical Society of Ireland), P. A. Brady (vice-president), P. C. Cahill (treasurer), J. J. Kerr (registrar), Lyall G. Smith (president, Irish Drug Association), G. C. O'Neill (vice-president), S. McAuley, P. J. Hernon (Dublin City Manager), Senator F. M. Summerfield, the Chief State Solicitor (Mr. W. Corrigan), Dr. A. Conyngham, Messrs. E. W. Massey (Imperial Chemical Industries, Ltd.), James Sleator (president, Royal Hibernian Academy), A. W. Davidson and R. C. L. White (May, Roberts (Ireland), Ltd.), N. E. Sutton (J. J. Graham & Co.), and P. Denehy (Chemists' Rugby Club).

VITAMIN B₁ POTENCY STANDARD

The following letter has been received over the joint signatures of the director of biological standards, National Institute for Medical Research, and the secretary, British Pharmacopoeia Commission.

SIR,—Mr. H. R. Jensen's note on "Vitamin Potency Standard" *C. & D.*, 1945. II. 5) suggests that he is not familiar with the developments that have led to the present position, and this is due, perhaps, to the restricted circulation of some publications and official documents during the war. There is, of course, only one standard of potency for vitamin B₁, namely, the international unit which is defined as the anti-beriberi activity contained in three microgm. of the (second, or replacement) international standard for vitamin B₁, this standard being a sample of pure, crystalline, synthetic vitamin B₁ hydrochloride.

Second International Standard

This second international standard for vitamin B₁ was adopted just before the war, and was held at the Department of Biological Standards, the National Institute for Medical Research, Hampstead. At the time of its adoption the new standard was sought by experts in this field to contain approximately one molecule of water of crystallisation and was so described in the memorandum (M.39) prepared at that time (Bulletin of the Health Organisation, League of Nations", 1938. 7. 882-86). Shortly after its adoption, a paper by Bastedo, Trenner and Webb was published in the "Journal of the American Chemical Society" (1938. 60. 2303) from which it was clear that the international standard, from the method of preparation, could not be the monohydrate; and subsequent laboratory investigations showed that it was, in fact, the anhydrous hydrochloride. Consequently, an addendum to the original memorandum, correcting this error, was published ("Bull. Health Org. L.O.N.," 1940. 9. 371). In this addendum, which Mr. Jensen presumably has not seen, the international standard is correctly described as follows:—"The preparation contains no water of crystallisation."

The fact that the second international standard for vitamin B₁ was originally accurately described in regard to its water content does not, of course, affect the standard itself, nor the international unit, which remains as the potency of 3 microgm. of the international standard preparation.

In 1943 it was decided that a British national standard for vitamin B₁ should be established, since it was anticipated that large quantities would be required and, in any case, the national control centres of different countries are expected to prepare national standards and to assay these in terms of the international standard in order to economise the stocks of the latter. Accordingly, a large quantity of a pure, crystalline, synthetic preparation of vitamin B₁ hydrochloride was selected to serve as the British national standard, and its suitability was established by careful chemical and physical analyses. Moreover, its potency, in relation to the international standard, was also determined by biological tests, and it was found that 1 international unit is contained in 3.125 microgm. of the British national standard (or 1 mgm. contains 320 international units). Now this British national standard contains 4.5 per cent. of water, and no attempt has been made to remove this, or to prepare the anhydrous hydrochloride, as material containing this amount of water (approximately equivalent to the monohydrate) appears to be a stable form of the vitamin; since both the international and the British national standards are extremely pure preparations of vitamin B₁, the fact that the latter contains this quantity of water explains its slightly lower potency as compared with the international standard preparation.

British Standard

The standard preparation and unit of the British Pharmacopoeia are defined in the Seventh Addendum to the British Pharmacopoeia, 1932 (p. 81); the unit is the same as the international unit, and the standard preparation is, in fact, the British national standard preparation. It is supplied in 1-gm. quantities and it is clearly stated on the label that 1 mgm. contains 320 international units. The potency of all vitamin B₁ preparations is expressed in international units, and it is immaterial whether the assays are carried out in comparison with the international standard, as formerly, or in comparison with the British national standard, as at present.

(Signed) PERCIVAL HARTLEY, *Director of Biological Standards, National Institute for Medical Research.*
C. H. HAMPSHIRE, *Secretary, British Pharmacopoeia Commission.*

London, W.1.

HARRISON MEMORIAL LECTURE

THE Harrison Memorial Medal was presented to Mr. Reginald Robert Bennett at a meeting of the Pharmaceutical Society on January 10. The president (Mr. J. C. Young) occupied the chair.

In presenting the medal to Mr. Bennett, THE CHAIRMAN said that the Harrison Memorial Lecture and Medal were instituted to keep alive the memory of Edward Frank Harrison, a pharmaceutical chemist with a distinguished career as a consultant and analyst. The person to whom the award was made received a silver medal and delivered a lecture on pharmacy.

Mr. Bennett, who was this year's recipient of the award, was a student of the College and then became a demonstrator and lecturer. Subsequently he became an examiner and eventually was chief pharmacist at University College Hospital. After working there for several years he became one of the directors of The British Drug Houses, Ltd. He was secretary for many years of the British Pharmaceutical Conference and was also its chairman. He was a member of the Codex Committee but he thought that his chief work had been as a member of the Pharmacopeia Commission. He was chairman of the pharmaceutical section and of its five subsections. The chairman then called upon Mr. Bennett to deliver a lecture on "The British Pharmacopeia."

It seemed opportune, said Mr. Bennett, to choose as a subject for his lecture an aspect of pharmacy to which Harrison himself devoted some thought—pharmacopeia revision. When the first issue of the Codex was published by the Pharmaceutical Society in 1907 the relative positions of the medical profession and the pharmaceutical calling so far as they related to the British Pharmacopeia were exciting much discussion. At that time, and until 1928, members of the medical profession alone were directly responsible to the General Medical Council for compiling and revising the British Pharmacopeia, whereas in all other European countries pharmacy had official representation.

Early Pharmacopeias

Referring in detail to the history of the London, Edinburgh and Dublin pharmacopeias, Mr. Bennett explained that they were published independently by the colleges of physicians in England, Scotland and Ireland and were the forerunners of the British Pharmacopeia. There were obvious difficulties in superseding three pharma-

copeias by one and in reconciling various usages which had hitherto been separate and independent. Many preparations called by the same name in the three pharmacopeias differed in composition and in specified methods of manufacture. The first British Pharmacopeia appeared in 1818 and others were published at irregular intervals down to the sixth issue in 1932.

After the publication of the British Pharmacopeia in 1914 further active revision was in abeyance and it was not until 1928 that a subcommittee of the Committee of Civil Research recommended that the General Medical Council should set up a selection committee to select persons to form a body to be designated the Pharmacopeia Commission who would undertake the work of preparing future issues under the general direction of the General Medical Council. At last pharmacists were given the status which appeared to be due to them and after four years of intensive work the sixth British Pharmacopeia, prepared by the first Commission, appeared in 1932. An inevitable result of war conditions had been a delay in the publication of the second issue, which was due to appear in 1942, but several addenda to the 1932 edition had been provided. A new pharmacopeia was now in active preparation. The Pharmacopeia Commission had been reinforced and now consisted of a chairman with nine member four of whom had pharmaceutical qualifications.

International Co-operation

A gratifying feature of the revision work was the co-operation between the Pharmacopeia Commission and the Commission of Revision of the United States Pharmacopeia. The exchange of reports and discussions and an effort to harmonise the titles and the standards of the two pharmacopeias should benefit both books and permit a closer approach to perfection in official standards. There was abundant evidence from the later pharmacopeias of greater precision of standards with the introduction of new tests and methods of analysis and of a more detailed description of the tests. It had been pointed out on many occasions that with the extension of scientific control of activity and purity it became less and less possible for a dispensing pharmacist to make his own preparations in a small way. That cleavage of pharmacy into the manufacturing side and the dispensing and distributing side must be

ognised. He knew that many pharmacists deplored that trend but there was still ample scope for the practice of their art and that connexion they should remember the increasing use of injections and the consequent necessity for the adoption of sterilisation technique.

Importance of Research

Research was the keystone of medical progress and the advancement of medicine depended upon the persistent toil of its research workers and the increased use of scientific methods in the study of disease. Opportunity for research in general Government departments were becoming increasingly aware of their obligations in regard to the division of funds. He was anxious to mention briefly the importance of co-operation between academic laboratories, research institutions and industry and the need for a clear understanding by each of them of the requirements and the problems the others. It was undeniably true that science had contributed enormously to the growth and the development of industry and that it was industry which had made the findings of scientists available to society. Scientific discoveries might be sterile from the point of view of society if industry did not make use of them in some way. Industry had not only given financial support to fundamental research in universities and research institutions; it had also supplied materials for the use of academic workers and it had provided facilities for large-scale work. It was very important that that co-operation should be continued on a basis which must, of course, be satisfactory to all parties concerned.

Extending the Boundaries of Knowledge

To attain that objective it was, he thought, essential that the separate groups of workers should understand what each of them was trying to achieve. Although the primary purpose of universities and academic institutions was the training of youth and the expansion and extension of mental horizons, nevertheless they served a much wider purpose in extending the boundaries of knowledge. So, also, if the purpose and reason for the existence of the manufacturing industries was to produce and sell something which people required, the desire to apply new knowledge established an interest and zest in industrial research hardly distinguishable from that of the academic institution.

Harrison, by his great example, had shown his belief in the principle of co-

operation between academic and industrial workers. There was no end to the progress of science, and science and industry must go forward shoulder to shoulder. Every addition to the store of scientific knowledge served as a stepping stone to further discoveries. A great expansion of research in analytical science had already resulted in great advances in the practice of medicine and the extent to which humanity would eventually benefit no one, he thought, could foresee.

Vote of Thanks

In proposing a vote of thanks to Mr. Bennett, Dr. HAMPSHIRE said that to his mind it was fitting for the Society to meet at stated periods to commemorate a famous man. That evening they did three things. They recalled Harrison and his life of work to their minds, they paid honour to a distinguished pharmacist and they enjoyed the fruits of his experience and of his knowledge as expressed in the address. Most of them recalled the days of 1915 when Harrison had his opportunity. They could recall the consternation, the dismay almost, which overtook the British Army when the Germans first used gas and they could recall with pride that it was a pharmacist who was called upon to rise to the occasion and to put into the hands of the British soldier the protection which ultimately enabled him to go forward to victory.

He was sure that they all wished to congratulate Mr. Bennett on being the recipient of the medal. The vote of thanks was carried with acclamation.

Kingzett's Chemical Encyclopædia, Seventh Edition.—Revised and edited by Ralph K. Strong, Ph.D. 9 in. by 6 in. Pp. 1,092. 45s. Baillière, Tindall & Cox, 7 Henrietta Street, Covent Garden, London, W.C.2. Originally founded and written by C. T. Kingzett, F.I.C., F.C.S., in 1919, and since his death edited by Dr. R. K. Strong, this well-known reference book has grown from 368 pages in 1920 to a volume of 1,092 pages in the current edition. The original aim was to offer a digest of chemistry and its industrial applications in a form useful for reference by all classes of the community. The present edition has been compiled under the severe handicaps of war conditions. In spite of this, well over 150 changes have been made, of which many are new and illustrate the great progress of chemistry in the war years. The book is well printed in a clear type on good paper and contains many references to the literature.

PROPRIETARY ARTICLES TRADE ASSOCIATION

THE quarterly meeting of the council of Proprietary Articles Trade Association was held on January 10, the president (Mr. R. Peck) in the chair. THE PRESIDENT referred to the death of Mr. A. T. Tyler (Parke, Davis & Co.) who had only recently returned to this country from Australia. In past years, Mr. Tyler had represented his firm on the manufacturers' section of the council, and had been a valued member of the executive committee. They also deplored the death of Mr. W. R. Jamieson (chairman, Ayrton, Saunders & Co., Ltd., members of the wholesale section). A resolution of sympathy with the relatives of Messrs. Tyler and Jamieson was passed in silence. THE PRESIDENT then welcomed the two new members of council: Messrs. J. F. Watts (retail section) and J. O. Rintoul (Macleans, Ltd.) (manufacturers' section).

Council Changes

THE PRESIDENT moved, and the council unanimously approved, that a message of thanks for, and appreciation of, the company's long service as members of the manufacturers' section of the council should be sent to Newton, Chambers & Co., Ltd., who had failed to secure election in the recent contest. On the motion of THE PRESIDENT, the council expressed satisfaction that Allen & Hanburys, Ltd., had accepted an invitation by the council to rejoin the Association. Mr Peck said that the company was a founder member of the P.A.T.A. and council, and it was gratifying that it had now decided to renew and extend its co-operation with the Association.

Wholesale Distribution of Protected Articles

The council received the following report: "Related to the modifications in P.A.T.A. policy and procedure approved by the council in April 1945 was the appointment of a subcommittee to examine in detail, and in particular from the price-maintenance point of view, the subject of wholesale distribution of P.A.T.A. articles. The committee went fully into the question and reported to the council; its recommendation that favourable consideration should be given only to applicants for wholesale recognition who supply satisfactory answers to inquiries regarding premises, capital, delivery facilities, etc., set out in a form of questionnaire approved by the executive committee, has been accepted and acted upon by the council, and the form of questionnaire has been

approved and put into use. A recommendation that the provisions of the agreement signed by wholesalers who have been recognised by the council should be made more stringent has also been accepted, and the strengthened agreement has been approved and is now in use. The council has also agreed that a meeting of manufacturers for general discussion of P.A.T. policy, recommended by the committee shall be called at the appropriate time, and that consultation on price-maintenance matters of common interest to the P.A.T. and other price-maintenance organisations should be initiated and conducted as required."

On the motion of THE PRESIDENT, the council unanimously approved a recommendation by the subcommittee that clause (d) in the manufacturers' agreement which relates to the opening of wholesale accounts, should be amended by adoption of the following form of wording: "I undertake to refer to the P.A.T.A. applications for wholesale terms from traders not already approved by the P.A.T.A., and not to supply traders who the P.A.T.A. council is unable on price maintenance grounds to recognise as wholesale distributors of P.A.T.A. goods", being understood that the grounds of refusal may include any circumstance which, in the view of the council, renders the applicant unreliable from a price maintenance point of view. THE PRESIDENT said that the matters dealt with in the report and resolution had called for the careful and protracted consideration of the three sections of the council, and of the executive committee, and it was gratifying that agreement had been reached on this difficult question.

Election of Officers

THE PRESIDENT for the year 1946 was due to be nominated by the retail section of the council. MR. ROWSELL, on behalf of that section, accordingly nominated Mr. F. Skues who had, he said, by his devoted and outstanding work, earned the unstinted confidence and respect of his colleagues. The motion was seconded by Mr. F. J. SMITH, supported by Messrs. W. W. KNORR and J. MILNER, and carried unanimously. MR. SKUES then took the chair. He thanked the council for the honour conferred upon him, and said he knew that in carrying out his duties, he would have the co-operation and support of his colleagues of all sections

the motion of Mr. SKUES, a vote of thanks was accorded to the retiring president (Mr. Peck) who, throughout a difficult and arduous year of office, had distinguished himself by the capable, tactful and urbane manner in which he had directed the business of the council. The following officers were also elected: *Vice-presidents*: Messrs. H. G. Middleton (manufacturers); F. Forster (wholesale); and S. W. Hague (retail). *Treasurer*: Mr. L. Barclay. *Executive Committee*: Messrs. J. D. Bohn, G. Hunt, R. G. Dyas (manufacturer); J. Smith, Colonel S. Watson (wholesale); S. Howells, T. Marns, H. H. Marshall (retail), with (*ex-officio*) the president, immediate past-president, vice-presidents, treasurer and chairman of the P.A.T.A. Dist. Co., Ltd. (Mr. C. H. Ratcliffe).

THE PRESIDENT said it gave him great pleasure to move, in accordance with the wishes of the council and the provisions of the bye-laws of the Association's rules, that

P. F. Rowsell should be elected an honorary member of the council. The rule provided that the honour could be conferred on persons who, as former members of the council or otherwise, had rendered exceptional service to the Association. Mr. Rowsell had decided not to seek re-election at the recent council election, and his colleagues considered that, in view of his long and exceptional services to the P.A.T.A., they should make him an honorary member, not only as evidence of their desire to honour Mr. Rowsell, but also for the purpose of retaining him as a valued member on the council and the executive committee, to which he would also be co-opted. The motion was unanimously adopted. MR. ROWSELL thanked the president and council for the honour conferred on him.

Jubilee of Association

THE PRESIDENT reminded the council that 1946 marked the fiftieth anniversary of the foundation of the P.A.T.A.; members had naturally expressed the desire that appropriate steps to celebrate the Association's Jubilee should be taken. The council appointed a committee to consider ways and means and to report back.

THE SECRETARY reported that a recent modification in the provisions of the Control of Publications Order would permit the distribution of a "P.A.T.A. Quarterly Record," the publication of which has been authorized by the council in 1945. The necessary arrangements had been made for publication of the near future of what would be "a most official journal."

Purchase Tax

THE PRESIDENT and MR. PECK reported on a meeting convened by the National Chamber of Trade which they, with the secretary, had attended, and at which the matter of abolition or reduction of purchase tax, and the lines of approach to the Chancellor of the Exchequer in connexion therewith, had been discussed. Mr. Peck, who had a wide and intimate knowledge of the subject, had been asked to serve as P.A.T.A. representative on a special committee nominated by the meeting, and the appointment was approved and confirmed by the council.

Price-Maintenance Work

The secretary's quarterly report on price-maintenance work stated that, during the three months, approximately 420 calls and inspections had been made by P.A.T.A. representatives at retail shops, including co-operative-society branches. In seven instances only was evidence of price-cutting obtained. During the period 250 test purchases had been made. Few of the traders on the stop list were selling P.A.T.A. goods at a cut price; the names of five traders had been removed from the list. Calls made by the Association's representatives at co-operative societies included a number of metropolitan and provincial societies, and it would appear from the investigations that some improvement in regard to the observance of P.A.T.A. conditions by the societies had taken place.

Wintergreen Instead of Spirit.—At an inquest at Kilburn, recently, a verdict of accidental death was returned on Dr. Barclay-Sutton, whose death resulted from confusion between oil of wintergreen and surgical spirit on the part of an assistant at a chemist's shop. The widow said that her husband was a cripple and had not left the house for some years. He was addicted to morphine, and she knew that he drank methylated spirits, surgical spirit and Friar's balsam. He used to telephone to a chemist in Kilburn High Road, and she then collected what he required. She had visited the shop on the previous Saturday and brought back a filled bottle that was given her. An assistant at the shop said she believed at the time she filled the bottle with surgical spirit. The stock bottles containing oil of wintergreen stood on the same shelf, with one other bottle separating it from the spirit. Mr. William Dixon, M.P.S., Torbay Road, Kilburn, proprietor of the pharmacy, said that he had never seen Dr. Barclay-Sutton.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

THE monthly meeting of the Council of the Pharmaceutical Society was held in London on January 8 and 9, the president (Mr. J. Young) in the chair. The Council had taken a New Year resolution to adhere more strictly to its rules of procedure, and the effect of this on the speedy conduct of business was marked.

Tuesday's Session

The Council considered a report of a committee appointed to consider improvements in the arrangements for the discharge of Council business. At the request of MR. HIRST and MR. MACDONALD MURRAY the opposition of these two members to one of the proposals was recorded, namely the holding of regular meetings of the Organisation, Publications and Public Services Committees every three months instead of monthly. Minutes were read of a meeting of the Joint Committee on a National Pharmaceutical Service, held on December 5, 1945, which dealt with progress made in regard to a joint deputation of the Committee and other pharmaceutical organisations to interview the Minister of Health.

Wednesday's Proceedings

THE SECRETARY announced that New Year greetings had been received from the Pharmaceutical Societies of India, Ireland, New South Wales and Victoria, and from the College of Pharmacists of the Province of Quebec. During December, he said, forty-one persons registered as apprentices or students, making a total for 1945 of 530.

THE REGISTRAR reported that since the previous meeting forty-one persons had been registered as "Apprentice or Student"; ten persons previously removed from the Register of Chemists and Druggists and/or Pharmaceutical Chemists were restored. One pharmacist was registered under a reciprocity agreement.

MR. MELHUSH raised the question of the position of returned prisoners of war and internees, whose subscriptions had been waived during the war. THE SECRETARY said that those who had been in the Forces had remained on the Register throughout the war. The question of civilian internees had not so far arisen, but he suggested it should be an instruction of Council that in applications for restoration in such cases the penalty should be waived. This was agreed to.

Minutes of Committees

The minutes of the Benevolent Fund and Establishment Committees were received and a recommendation by the latter that the Council take a lease of 69 Great Russell Street for a period of five years was approved. In the minutes of the Joint School Committee, which were discussed, Committee, it was stated that the University of London had recognised the appointment of Dr. Dyer and Mr. Fairbairn as that recognised teacher, and that the Dean had been appointed to the Board of Studies in Pharmacology of the University of London. Dr. Cross, Miss Neal and Mr. Briggs had resigned from the College staff as from January 31. The minutes were received as were also those of the Finance Committee.

Canvassing by Council Candidates

MR. WELLS, who submitted the minutes of the Organisation Committee, referred to the proposed by-law on canvassing by Council candidates, and on behalf of the Committee moved a recommendation that a statement be published in the Press to the following terms:—

"The proposed by-law only affects approaches made by a candidate to others and not approaches made by others to him; for example, requests from branches to expound his views and answer questions in writing at meetings, or from individual members desiring to obtain similar information. The Council welcome discussion by members and branches of candidates and their policies.

"It was not intended that the by-law should affect the forthcoming election; indeed, it would not be practicable to pass it in time to do so, but candidates will be asked voluntarily to accept the conditions of the proposed by-law, and the procedure for the publication of candidates' statements in the 'Pharmaceutical Journal' and the circularisation of biographical details will be observed."

Only ten letters on the subject had, he said, been received from the whole membership, and these asked mainly for clarification of the position. It was hoped to discuss the whole matter in detail next month.

MR. BROCKLEHURST moved as an amendment the addition, after the word "policies" at the end of the first paragraph, of the words "It proposes to have the question discussed at the branch representatives meeting in 1946." It should be made clear, he suggested, that the by-law would not be put into operation until it had been so discussed.

MR. PARRY expressed some doubt about reference to requests from branches to candidates, and said that a good deal of "angling" went on to secure invitations in branches. MR. MCNEAL, supporting amendment, said that the branch representatives' meeting having been conducted in the first place it should have an opportunity of considering the by-law when finally drafted. MR. HOWELLS, on the other hand, dissented from the view that the wording of by-laws should be submitted to the branch representatives' meeting for approval. MR. WELLS explained that the matter had not been before the branch representatives' meeting, but every branch had been invited by letter to discuss the matter. As a result, nineteen replies were received, a large majority being in favour of action on the lines suggested. MR. MURRAY suggested that for the present it was not possible to go further than to say that a candidate should not directly canvass. THE SECRETARY pointed out that all that the Council was being asked to do was to agree to the publication of a statement in the Press. At the next meeting the details of the by-law would come up for consideration.

The amendment was negatived by a large majority and the recommendation adopted. The minutes of the Committee were received.

Education Committee

In the minutes of the Education Committee reference was made to the fact that at the last meeting forty-six pharmacies had been approved. MR. PARRY expressed the view that pharmacists throughout the country should know that with ten exceptions the apprentices were all absorbed by the limited companies. The minutes were received.

The report of the Law Committee, presented by THE CHAIRMAN (Sir Malcolm Levingne) showed that the premises of 109 authorised sellers, 172 listed sellers and 553 drug-store proprietors and similar traders had been visited by the Society's inspectors and agents. Eleven cases of alleged infringements were considered and appropriate action taken. The report also recorded and welcomed the return to duty of the Society of Mr. A. C. Castle (staff solicitor) after service with the Royal Air Force. Further consideration was given to instances of continued advertising of dispensing services, and a decision to enter into further correspondence on the matter was reported.

This concluded the public business of the Council at the monthly meeting.

Successor to Sir Walter Langdon-Brown

A successor has been appointed to take the place of Sir Walter Langdon-Brown as one of the three Privy Council nominees on the Council of the Society. The new member is Dr. B. A. Young, M.D., M.R.C.P., M.R.C.S., medical superintendent of St. Alfege's Hospital, Greenwich.

Examination Results

THE following candidates were successful in the Chemist and Druggist Qualifying examination held in January:—

England and Wales

Blumenthal, Shirley, Birmingham.
Bull, Alan John Charles, Ilbury.
Coggrave, Charles Gordon, Goole.
Compagnone, Alio, London, W.
Cowper, Ann Elizabeth, Sutton.
Edwards, Addis Beryl, Salford.
Frayne, Gordon Dennis, Bideford.
Frogg, John Wesley, Mansfield.
Galloway, Geoffrey John, Purley.
Heilpern, Miriam Bella, Manchester.
Hodges, Irene Clara, Exeter.
Jackson, Sidney, Methley.
Jones, Kitty Matilda, Swansea.
Minns, Margaret Ruth, Hillingdon Heath.
Morely, Gillian Dorothy, Tunbridge Wells.
Spiers, Victor Francis, Bournemouth.
Spink, John Daniel, Westbury.
Taberner, Myra Margaret, Bletchley.
Thomas, Eric, Tipton.
Tracy, Mary Patricia, Romsey.
Turner, Edward Reuben Arthur, Cambridge.
Williams, Donald George, Southwick.

Scotland

Batey, George Donaldson, Lemington-on-Tyne.
Berman, Violet Ruth, Moreton, Wirral.
Calvert, Leslie, Leeds.
Charlesworth, Anne, Buxton.
Clark, Frank, Scarborough.
Cocking, Frederick George, Blackpool.
Eastwood, William, Nelson.
Howard, Gilbert Lawson, Leicester.
Jones, Iorwerth, Liverpool.
Little, Oswald Forster, Annfield Plain.
Louis, John Kenneth, Sunderland.
Macfarlane, Duncan, Milngavie.
Mallory, Lillian, Leeds.
Minty, Robert Wilson, Aberdeen.
Paterson, John Alcorn, Glasgow.
Piercy, William Laurence, Darlington.
Richardson, John Eric, Wigan.
Ritson, Eveline, Knaresborough.
Rix, Kathleen, Bradford.
Robson, George William, Willington, co. Durham.
Seal, Kenneth Stanley, Sheffield.
Snowdon, William Neville, Willington, co. Durham.
Watkinson, Leslie Robert, Southport.

'TRIAD' CHERRY Flavoured MALT & OIL
COLD CURE CAPSULES
'VYTINA' TONIC TABLETS
HALIBUT OIL & MALT
TONIC PHOSPHATES
TIN OX TABLETS



John Bell
PRODUCTS

reliability remembered
demand undiminished
supplies somewhat short

JOHN BELL, HILLS & LUCAS LTD.
Oxford Works, Worsley Bridge Road, S.E. 26

STANNOXYL

The original preparation of tin and tin oxide for the treatment of Soils
TABLETS—TUBES OF 80

THE ANGLO-FRENCH DRUG CO., LTD., LONDON, W.C.1

Your customers will need **NUTILIS** **D. D. T.**
The new wonder insecticide Powder or Liquid
1/- & 2/6

NUTILIS PRODUCTS LTD.
30-32 Thames Street, Kingston-on-Thames

RANKIN BROTHERS & SONS
(RANKIN PARTNERS, LTD.)
139 BERMONDSEY STREET, LONDON, S.E.1

for **DISPENSING**
CORKS

OWNERS OF THE FINEST
CORK FORESTS IN PORTUGAL

BURROUGH'S **S.V.R.**


James Burrough Ltd.
1 Cale Distillery
London, S.E.11

TRAGACANTH
SPECIALISTS IN B.P. POWDER
SAMPLES AND PRICES ON REQUEST.
FREUDENTHEIL, SMITH & CO., 16 Philpot Lane
London, E.C.3.
MANsion House 1924 & 6600. Estd. 1824

BETTER
Advertising & MARKETING

40 years' success with proprietary lines of national and international fame enable us to offer our clients many solid advantages. Our advertising sells goods at the lowest on-cost.

STUART HIRST, LTD.
Survey House, 15 Bond Street, Leeds, 1



VERDIERS
MANICREEM
Hand Protective Cream

TAKES DIRT OUT OF WORK

Protects instantly against DIRT—CRIME—STAINS—CHAFING. Does not make the hands sticky. Leaves them clean, smooth and healthy. No soap or hot water needed. 18/9 per dozen, plus 6/3 P.T. Retail Price 2/11 per jar.

VERDIERS LTD.
Manufacturing Chemists
15, OLD BOND STREET, LONDON, W.1

CONFIDENT that we can be of service to you we invite enquiries for
PROPRIETARY ARTICLES
PHARMACEUTICAL PREPS.
DRUGGISTS SUNDRIES
DRESSINGS

N. & M. GOULD, LTD.
62, 64, 66 STONEY LANE
LONDON, E.C.3
BISHOPSGATE 7734, 5355

THE CHEMIST AND DRUGGIST

ESTABLISHED 1889

RETAILER — WHOLESALER — MANUFACTURER

culates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied trades and Industries in Great Britain, Eire, British Empire, and foreign countries

cial organ of The Pharmaceutical Society of Great Britain and, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire

L. CXLV JANUARY 19, 1946 NO. 3441

"Canvassing" By-law Doubts

At the monthly meeting of the Council of the Pharmaceutical Society of Great Britain held on Wednesday, January 9 (see p. 78) a recommendation was adopted explaining the intention of those responsible for the framing of the proposed by-law "Canvassing by Council Candidates" (THE CHEMIST AND DRUGGIST, December 8, 1945, p. 619) to which objection had been taken by some members of the Society and its branches. It will be recalled the original by-law stated:—

"A candidate shall not canvass for votes or request any person or organisation to do so on his behalf."

The recommendation now issued makes clear that the proposed by-law would not prevent individual members of the Society or its branches from approaching candidates, asking them questions on matters of policy or requesting them to address meetings on pharmaceutical politics. On the other hand candidates must not be the initiators of such proceedings. We feel the Council has no desire to handicap newcomers for council honours; at the same time the proposed by-law, in its modified form, remains a restriction on free speech and the liberty and customary activities of candidates at elections.

The dispatch of election addresses and similar publicity by candidates themselves is still to be banned, but, apparently, it will be permissible for friends and supporters of the candidates or branches of the Society,

on their own initiative, to dispatch such literature appealing for support for particular candidates. So far as space permits statements of policy and biographical details of each candidate will be published in the Society's Journal. On this point we desire to make it clear that we intend to follow our procedure of many years past. We shall invite all candidates to send in for publication in THE CHEMIST AND DRUGGIST a statement of their policy. Such statements of policy would be sent in on our request and there would be no question of infringement of the proposed by-law by their publication.

With the proposed National Health Service looming ahead, the urgency to secure the immediate release of some hundreds of pharmacists from the Forces and many other matters of importance in which the Council might usefully be active and vigilant in protecting the interests of pharmacists, valuable time has been spent on this proposed by-law, which, in its modified form, means little or nothing and, in our opinion, is incapable of enforcement, with the position reaching a stage bordering on fiasco.

Except that some proposal might be brought forward to limit candidates' expenses to a reasonable amount, we see no reason whatever for the attempts that are being made, on ethical grounds, to restrict candidates' election activities from what has hitherto been accepted as normal procedure. For our part we intend to give all possible publicity to all candidates, without distinction, and to any other matter of interest to pharmacists, solely with the object of creating interest among the rank and file of pharmacy, and we can see nothing objectionable in so doing.

Trade and Employment Conference

THE success of international co-operation during the post-war years will depend to a large degree on the avoidance of maladjustments in the economic sphere. Collective measures to safeguard the peoples of the world from threats to peace will be useless unless reinforced by a policy of fairness and equity in economic relations between states, coupled with a general raising of the standard of well-being among the nations. How

these desirable and essential conditions are to be realised is explained in a White Paper (Cmd. 6709), outlining the purposes of the International Conference on Trade and Employment to be held this year (Stationery Office, price fourpence).

High on the list of proposals are those concerned with steady employment. It is recognised that stable employment is a main condition for the attainment of satisfactory levels of living and it is suggested that each of the signatory nations should take action designed to achieve and maintain full employment within its own jurisdiction, but should not seek to obtain this end by measures likely to create unemployment elsewhere. The need for an international trade organisation is stressed and proposals for the creation of such a body are outlined. The principles upon which such an organisation would be based should provide for an equitable means for dealing with the problems of governmental

measures affecting international trade, the curbing of restrictive trade practices resulting from private international business arrangements, and should govern the institution and operation of inter-governmental commodity arrangements.

A number of commissions responsible to the Executive Board of the organisation are to be created, including a Commission on Commodities which will investigate commodity problems, including the question of an international buffer stocks organisation or other arrangements which are proposed as a means of promoting solution to commodity problems. The Commission will also make recommendations to the Executive Board on appropriate courses of action. The proposals contained in the White Paper have the endorsement of the United States and Great Britain and have been submitted to other governments as a basis for discussion preliminary to the holding of the Conference.

COMMITTEE ON SHOP HOURS

FOLLOWING the Government's decision to set up a body on shop hours, announced in the House of Commons on December 19, 1945, the Home Secretary and Secretary of State for Scotland have appointed a Committee: (1) To inquire into the provisions of the Shops Acts relating to closing hours (general or local) and to report as soon as possible whether any alterations are desirable; (2) to inquire into and make recommendations as to extending, strengthening or modifying—(a) the statutory provisions relating to the health, welfare and safety of employed persons at places of employment other than those regulated under the Factories or Mines and Quarries Acts, and (b) the statutory regulation of the hours of employment of young persons; (3) to inquire into and make recommendations as to the machinery for enforcing statutory provisions within the scope of (1) and (2) above. For the purposes of particular inquiries into specified branches or aspects of these matters the membership of sub-committees may be enlarged by the appointment by the Secretary of State of persons with specialised experience or qualification, and the Committee may if it so desires present separate reports on any group of matters falling within the scope of (2) and (3) above.

The members of the new Shop Hours Committee are: Sir Ernest Gowers (chairman of the Coal Commission and former Senior Regional Commissioner for London); Chairman; Miss Alice Bacon, (M.P. for N.E. Leeds); Alderman Mrs. Elizabeth Campbell (Beckenham Borough Council); Alderman Sir John Catlow (chairman of the Middlesex County Education Committee); Miss Mary Ferguson (journalist and broadcaster); Mr. Norman Illingworth (Tootal, Broadhurst, Lee & Co.); Mr. W. H. M. Jackson (Cable Makers' Association); Major Duncan McCallum, M.C., (M.P. for Argyll); Lady Nathan (County Councillor, L.C.C.); Mr. G. R. H. Nugent (chairman, Surrey Agricultural Committee); Mr. Harry Plowman (town clerk of Oxford); Flight-Lieutenant Emrys Roberts (M.P. for Merioneth); Dr. Andrew J. Shinnie (medical officer of health, City of Westminster); Mr. John Storrar, M.C., (town clerk of Edinburgh); Mr. George Symington (deputy chairman, Glasgow Corporation); and Mrs. Barbara Wootton (reader in social studies in the University of London). The joint secretaries of the Committee to whom all correspondence should be addressed are Mr. G. H. McConnell of the Scottish Home Department, Edinburgh, and Mr. R. L. Wynn-Williams of the Home Office.

PENICILLIN DISPENSING DEMONSTRATIONS

PRACTICAL demonstrations accompanied a lecture on dispensing penicillin preparations given at the second evening meeting of the section of the North British Branch of the Pharmaceutical Society, held in Edinburgh recently, Mr. John Anderson, M.P.S. (Chairman of the Executive) presiding. The lecturer was Mr. Gordon Perrins, Ph.C., chief dispenser, Edinburgh Royal Infirmary, and a member of the board of examiners (Scotland). Introducing the speaker, the CHAIRMAN said that quite a lot had happened in the penicillin world since the Branch had had a lecture from Dr. Challinor on the subject in the early months of the year. Suggestions had been put forward for various preparations containing penicillin, and he thought they should pay a tribute to the pharmaceutical Press for the thorough way in which pharmacists had been kept up to date with all the advances.

Variations in Materials

On January 1, 1945, the speaker said, the Infirmary had taken over the dispensing of penicillin, which previously had been carried out in the bacteriology department of Edinburgh University. The methods then in use had been altered but little. When we began dispensing at first, we used American-manufactured penicillin, which gave a lemon-coloured solution with normal saline and was readily soluble. Later, tablets were used. They gave a darker solution, but were again readily soluble. Quite a few American brands were used (Pfizer, Winthrop, Squibb, etc.); also those of different British manufacturers." Both calcium and sodium salts had been tried, the make and type depending on whatever was supplied through Department of Health channels. The various samples had differed in colour from pale yellow to brown, and the rate of solubility had shown variations.

Recently, a new type of drip apparatus had been introduced, occupying less space and requiring less rubber tubing and glass parts. It consisted of a 2-c.c. syringe, to which was fitted rubber tubing, with a spring-clip and a T-shaped glass connexion, the supply of penicillin being drawn from a bottle containing usually 150,000 units in 2 c.c. This was the drip now exhibited. The instability of penicillin was, at the moment, the chief concern of the person handling it. For storage, a refrigerator was a necessity. Until such time as a stable penicillin appeared (one perhaps capable

of being boiled) a pharmacist should draw his supplies from some central dépôt where refrigeration was available. To prepare a cream, he could then add penicillin to a previously prepared base. Outlay in necessary apparatus was not going to be a paying proposition. If there was much dispensing to do, the pharmacist must be prepared to set aside a portion of his premises (preferably a separate room), where it would be necessary to devote much time to sterilising the apparatus, perhaps to the detriment of the remainder of the business. Here was an opportunity to practice some of the art of pharmacy now being taught.

Bacteria-free Water

It having been shown that storage of penicillin might lie outside the chemist's shop, there arose the provision of sterile distilled water, free from pyrogenic bacteria. Such bacteria—degradation bodies emanating from the still—which might be carried over into the distilled water, might be troublesome in saline or glucose solutions or in penicillin preparations. A baffle-plate might be fitted inside the still and a physiological test carried out to prove the absence (or presence) of such bacteria. Here, again, it would appear that the pharmacist might obtain supplies of bacteria-free distilled water from a wholesale house or other dépôt. Whatever else he might procure ready for use, he would, however, find the possession of an autoclave a necessity. The speaker at this point demonstrated the Sankey autoclave.

The possession of a hot-air oven would be a further asset, but inventive faculty could overcome the lack of it. Since its use was largely in the making of powder to be sprayed on to wounds, the pharmacist might obtain sterile powder already prepared. Having obtained an autoclave, the first thing was to prepare sterile normal saline, 0.9 per cent. Strengths of solutions varied, but an individual penicillin container usually contained 100,000 units, and solutions of this amount in 12 c.c. (or simple multiples of units) were employed. Using a sterile glass pipette, flamed on using (preferably with rubber and glass mouthpiece), 12 c.c. of normal saline was transferred to the original container, dissolved by agitation, and then transferred to a sterile bottle, fitted with cotton and gauze plug, and covered with parchment paper. The solution might be sent out in original bottles, suitably labelled.

Penicillin Spray Powder

The method of making powder for dusting on to wounds, using an R.A.F. spray (shown by the speaker), which might be sterilised, was to mix 100,000 units penicillin with 2.5 gm. sterile light MgO and 47.5 gm. sterile sulphanilamide (heated to 80° C. for five minutes to disperse moisture and prevent caking, and then at 150° C. for one hour), in a sterile glass mortar, and divide into ten small sterile wide-mouth vials.

Penicillin Cream

The strength of penicillin cream had been reduced considerably since it was first introduced. Originally 10,000 units per gm., it was now 500 units per gm. 100 gm. Lanette wax SX (partially phosphated cetyl-stearyl alcohol) or Promulsin (water-dispersible cellulose), shredded and placed in an evaporating-basin, previously swabbed with chloroform, was heated to 40° C., + 240 c.c. castor oil + 550 c.c. sterile distilled water, triturated, transferred (90-100 gm.) to jars, autoclaved at 15 lb. pressure (120° C.) for thirty minutes, and agitated whilst cooling; 500 units penicillin was dissolved in 10 c.c. sterile saline and added to the jar, mixing being effected with a sterile stirring-rod (flamed). Professor Berry had recommended the addition of 1 per cent. of phenoxetol, a colourless, viscous liquid, as preservative, with the idea of eliminating pyocyanea from burns and superficial wounds. Lanette wax must not be heated above 115° C., or it showed a tendency to hydrolyse, with production of an acid reaction, leading possibly to inactivation of the penicillin. Either the temperature must be controlled or a sterile alkaline buffer must be added (two parts boric acid crystals and one part borax), 1 per cent. being added before autoclaving, when a pH of 8 fell to pH 7.5.

Penicillin Pastilles

For pastilles with agar as base, 5 gm. agar in 90 c.c. sterile saline was autoclaved at 15 lb. pressure for twenty minutes, 17 c.c. transferred to sterile test-tube; 100,000 units penicillin was dissolved in 4 c.c. sterile saline, shaken, poured into a sterile Petri dish, and cut into $\frac{1}{8}$ - $\frac{1}{4}$ -in. squares with a sterile hot scalpel. Fifty pastilles were obtained from each Petri dish, each pastille containing 2,000 units. For pastilles with glyco-gelatin basis, the gelatin was prepared, cut into strips, autoclaved at 20 lb. for thirty minutes (125° C.), and

dealt with as above. Flavouring (peppermint or raspberry) might be added.

The speaker also dealt briefly with penicillin snuff, cream made with Eucerin lozenges and lamellæ, and gave dosages

Time Difficulty

THE CHAIRMAN said it was interesting to learn that a chemist would be able, if set aside a certain portion of his premises to dispense penicillin. He thought the snuff was the time factor, for the chemist, having commenced the work of dispensing penicillin, would require to "stay put" until the operation was completed. That raised an economic problem, but it was one which the Pharmaceutical Standing Committee (Scotland) and the Department of Health would be worrying about together. He asked Mr. Perrins how a patient was to be instructed on keeping a penicillin preparation in good condition. Would it be possible to have just sufficient for one application? He would also like to know whether once it was contaminated, the activity of a penicillin cream was negated. Mr. PERRINS replied that small containers were preferable, but until a stable penicillin came along he did not think anything could be done beyond telling the customer to be extremely careful with the preparation. Contamination would negate the activity of the part of the cream used, but the part underneath would remain satisfactory, especially with phenoxetol.

Safe Temperature

MR. SOMERVILLE asked what was the maximum temperature at which one could work with penicillin. Mr. PERRINS replied that he and his colleagues worked at ordinary room temperature, keeping the place as cool as possible. The material was not, of course, exposed for long.

MISS SUTHERLAND asked if Mr. Perrins had any experience of preparations of penicillin in oil and wax. THE SPEAKER said he had had considerable experience of them in small doses (2-3 c.c. in white beeswax and arachis oil). They were difficult to prepare and difficult to administer, because they had either to be warmed or placed in a warm syringe before they could be injected. The method had eventually been given up. The only other oil preparation was penicillin in sulphanilamide, L.S.F., which was almost an oily body. He had not introduced that in his talk because the preparation was complicated and the material only used in neuro-pathological work.

MR. IRONSIDE asked if calcium and sodium varieties had any advantage over the other in manipulation. MR. PERRINS did not think there was much between the two penicillins, although he personally preferred to work with the calcium salt; he thought it more readily soluble.

MR. BEATTIE asked whether, after mixing the penicillin with the cream, there was any particular temperature to which the cream was allowed to cool. Some of the manufacturers' leaflets suggested that the cream should be left liquid, the penicillin added and the preparation shaken. He asked the percentage of pulv. acid. boric. and borax to be added to Lanette wax SX, and if dextrose was used in the preparation of a snuff, and whether any great variation had been found in the solubilities of batches of tablets. MR. PERRINS, replying, said he allowed the cream to set till stone cold before adding penicillin. There were many formulas for creams, some using liquid paraffin, which was in rather scarce supply, and others using glycerin. In the Infirmary they used castor oil. The thinner cream might perhaps be preferable because it could be poured on to a surface. Before autoclaving, a buffer consisting of a mixture of two parts boric acid crystals and one part borax might be added to the emulsion at the rate of 1 per cent. of the content of Lanette wax SX. This would give a pH value of about 8, reduced to 5 after autoclaving. They had found no variability in the solubility of the tablets. Blood plasma would have been used in place of dextrose but that it cost about 5s. per lb. to produce and was therefore too expensive. Dextrose was suitable because it was practically inert. Unfortunately, it tended to clog the nostrils and the penicillin spoiled handkerchiefs.

Preservatives in Cream

MR. STOUT asked whether phenoxetol would be added to a cream to be used for the eyes, or was there some objection to using preservative for an eye cream? Must special bottles be used as containers? To ensure that the glass was free from alkali? He had noted somewhere a recommendation that the cream should be put into collapsible tubes. Would metallic tubes not tend to inactivate the penicillin, and in the same way would the use of a metallic spatula be not recommended? MR. PERRINS did not think that eye ointments had so far been used—only eye drops. He would not, however, advise the use of phenoxetol in an eye ointment,

because he thought it might be irritating. He and his co-workers had always used the original penicillin bottles on the assumption that, if the manufacturer used them, they would be quite safe for penicillin preparations. He had not come across the use of metal tubes in penicillin preparations and thought that their use would cause some inactivation of the penicillin; in the same way he would never use a metal spatula.

MR. BATEMAN asked if a penicillin preparation would be of use after keeping for twenty-four hours. The reply was that it would if kept in a refrigerator.

Water-in-Oil Emulsions

MR. MACMORRAN asked whether Mr. Perrins had had any experience in making penicillin cream using a water-in-oil emulsion. He understood that American workers had used water-in-oil. As the penicillin was actually in the aqueous solution he imagined it might be better protected in the disperse than in the continuous phase. He had noticed recently an article in which the writer stated that any chemist avoiding "gross" contamination would be perfectly able to make penicillin preparations. MR. PERRINS said he had had no experience of making penicillin cream with a water-in-oil emulsion. He thought that even "gross" contamination might pass because, after all, under certain conditions in the Services, it must be impossible to avoid contamination, and yet the results were effective.

LIEUTENANT-COLONEL STEWART (superintendent, Edinburgh Royal Infirmary) paid a tribute to Mr. Perrins and his staff for the work they had carried out. To carry out such work required an understanding of the necessity for bacteriological technique, and he would therefore recommend a course in bacteriology to those who undertook the making of penicillin preparations. The development of conscience in pharmacy was necessary. It was important in the making of ordinary pharmaceutical preparations, but they would realise how vitally important it was in the making of penicillin preparations.

DR. TAIT said that in recent years the introduction of such remarkable drugs as the sulphonamides and penicillin had brought doctors and chemists into closer touch with one another. The great danger was the indiscriminate use of such powerful substances. He felt that research and clinical experiment should be the guide.

DR. BLACKIE, proposed a vote of thanks to the lecturer. THE CHAIRMAN officially associated the Executive with the vote.

SURFACE ACTIVITY

Abstract of an address given in two parts before the Bristol Branch of the Pharmaceutical Society by Mr. W. Cooper, Ph.C.

BRISTOL Branch of the Pharmaceutical Society met on November 29 and December 13, 1945, to hear two parts of a paper on "Pharmaceutical Aspects of Surface Activity," read by MR. W. COOPER, Ph.C. Mr. J. Ellis Williams (chairman) presided on each occasion. Votes of thanks to the speaker were proposed by MISS PARRY and MR. DAVIS and carried with acclamation. The following is an abstract of the first part of the paper:—

Surface Energy and Adsorption

OWING to the inward pull of molecules in the bulk of a liquid upon those occupying the surface, the latter tends to contract to the smallest possible area. For this reason drops of liquid and bubbles of gas in a liquid become spherical. To extend the area of the surface it is necessary to do work. The work so done confers energy on the surface, and this is called the free surface energy. The tendency of a liquid to contract may be regarded as a consequence of its possession of free energy, which it tends to lose in order to approach equilibrium. The quantity of free surface energy possessed by 1 sq. cm. of surface is known as the surface tension of the liquid. $S.E. = a \times t$ where a is the total area of the surface and t is the surface tension. The system can lose free surface energy either by a reduction of area a or a reduction of the surface tension t .

Charge in Surface Tension

Many substances, when dissolved in a suitable liquid, produce a marked reduction in surface tension, so that the surface is able to spread out enormously and the liquid froths. The manner in which the change in surface tension is brought about is less clear. It is known, however, that substances which reduce surface tension are usually sparingly soluble, and in many examples have molecules that are polar in character, with one end distinctly oily (hydrophobe) and the other extremely soluble in water (hydrophile). As a consequence, such molecules tend to orient themselves at surfaces and interfaces, so that the $-COOH$ group forms a firm anchorage in the water, whilst the hydrophobe group is directed away from the water and towards the second medium (air or oil as the case may be). Some of the M^+ ions diffuse away for a short distance into the water and the pull exerted by them tends

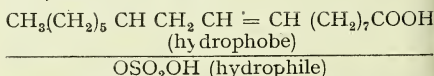
to draw the hydrophobe groups into the surface, where they may associate to form complexes or "micelles" having comparatively large negative charges for their size. It is perhaps permissible to imagine the surface studded with "micelles" all having like charges and so repelling one another. In many cases the accumulation of the solute at interfaces produces visible films. Substances capable of producing this effect are called surface-active agents. They are commonly referred to as wetting agents, surface-tension depressants, detergent dispersing agents, emulsifiers and penetrants. The terms are not synonymous, that, of two such agents, both having similar surface-tension-reducing properties, one may be a powerful detergent and the other have poor detergent and good emulsifying properties.

Other Factors

Reduction of interfacial tension is a concomitant of emulsification, penetration and detergent action, but it is not the sole factor determining the effectiveness of these processes, each of which is dependent upon other variables. There is no regular connexion between washing efficiency (detergency) and the degree of reduction of surface tension. The detergency test is still the washing of a piece of soiled cloth. Nor is reduction of surface and interfacial tension necessarily a criterion of good wetting power, as observed by taking the time required for a standard skein of grey cotton yarn to sink in a solution of the wetting agent. A knowledge of the surface-tension-reducing power of an agent cannot therefore be taken as an index of its usefulness for any one of the specific purposes for which it might be suitable. A few notes on some of them may be useful.

Sulphated Products

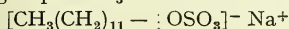
TURKEY RED OIL.—The substance is prepared by heating castor oil with sulphuric acid and neutralising the ricinoleic sulphuric acid with soda, potash, or ammonia. The products vary in composition according to the conditions of their formation, but the formula.



serves to indicate the polar character of the

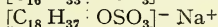
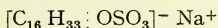
CO_2OH group which, when neutralised with soda, is much more soluble than the rest of the molecule. When properly neutralised it is a bland and non-irritating substance with marked wetting and detergent properties. It is also a good oil-in-water emulsifying agent, and has been used in toilet creams and ointment bases. It is said to be harmless for internal use and to have been used as a substitute for glycerin during the first world war. It is inexpensive and would be more used for toilet creams and ointment bases were it less sticky and more prone to give products that harden on drying.

SODIUM LAURYL SULPHATE.—In this the lauryl group OSO_3Na in the formula



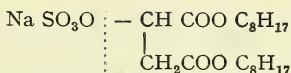
is hydrophile, whilst the hydrocarbon chain is hydrophobe. The "balance" tends to produce a substance with marked surface activity and strong film formation, so that it is a good emulsifying agent and can be used in conjunction with cetyl and stearyl alcohols to produce both liquid and cream emulsions of the o/w type. However, it seems to have been used chiefly for its detergent properties and is most popular as "soapless" shampoo. As a wetting agent it can be used in formulas for liquids that are required to spread on glass, foliage, etc. Of the three forms commercially available (powder, paste and liquid) the paste is considered by the author to be preferable for the more solid ointment bases and the liquid for fluid preparations.

SODIUM CETYL AND STEARYL SULPHATES. In the form of Lanette wax these substances have been much used. They are as effective as wetting agents or detergents in the ordinary sense, but as o/w emulsifying agents for creams and ointment bases are easy to use and give excellent products. The formulas are



A cream has to be sterilised in the autoclave, as in preparing the base for penicillin cream, it is best to put the aqueous phase into the jar and pour the melted fatty materials on the top without attempting to form an emulsion. By this means, partial hydrolysis to $\text{C}_{16}\text{H}_{33}\text{OH} + \text{NaHSO}_4$ is kept to a minimum. Experimental results have shown that concentration of the agent at the interface results in accelerated chemical reactions.

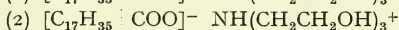
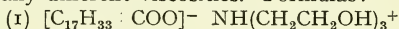
DIOCTYL ESTER OF SODIUM SULPHO-ACCINATE.—This substance, of which the formula is given in the next column



can be obtained 99–100 per cent. pure and stands autoclaving. It is said to be one of the most powerful wetting agents yet described, is practically neutral, is not precipitated by the hardest waters, and is reported to be non-toxic internally or externally. Highly detergent, it makes excellent shampoos.

Soaps with Organic Bases

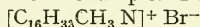
TRIETHANOLAMINE OLEATE AND STEARATE.—These compounds have been used to produce both fluid and solid emulsions, and in hair creams and toilet emulsions of many different viscosities. Formulas:—



Such emulsions are fine-grained, stable, have nearly neutral reaction and good "body." As detergents the substances are powerful, and may remove too much oil from the hair or skin, resulting in dermatitis. Such reaction would appear unlikely in very oily preparations, but many operators prefer to use the compounds in combination with Lanette wax.

"Cationic" Agents

By cationic agents are meant those in which the hydrophobic ion carries the positive charge. **CETYLTRIMETHYLAMMONIUM BROMIDE** is an example. The formula is



The substance has been used and recommended for its detergent and bactericidal action. It appears to have given satisfaction for sterilising skin, hands and instruments. On glassware it leaves a slight waxy or greasy coat, so that water runs up into globules. M.R.C. War Memorandum 10 includes a sulphanilamide cream in which the substance is used as the emulsifying agent. The product is satisfactory, but the Memorandum states that there is a slight risk of dermatitis from repeated application to a burn, and that it should not be used on more than one or two occasions. The risk appears to render the compound unsuitable for preparation of ointment bases or toilet creams. The consideration of surface-active agents unsuitable for use as wetting agents or detergents but of importance as emulsifying and suspending agents may be effected in two groups.

Compounds Giving Oil-in-water Systems

ALUMINIUM HYDROXIDE.—Freshly precipitated aluminium hydroxide is highly

hydrated and can be used in a similar manner to mucilage of acacia for making o/w emulsions. It is, however, more useful for the purpose of wetting and suspending powders such as sulphur and calamine in lotions. If the sulphur for a lotion is first mixed with one-quarter of its weight of aluminium hydroxide (wet) and then the remainder of the ingredients added, an excellent suspension results, which shakes up easily even after long standing. It is also useful for suspending magnesium trisilicate, or rather for preventing it from settling into a sticky magma difficult to shake up. For the latter purpose magnesium carbonate is nearly as good. Sodium alginate is manufactured in such a way that mucilages of widely different viscosities may be made with it. Manucol IV is an efficient agent for increasing the viscosity of emulsions to reduce "creaming." It is also used for making greaseless jellies, mainly for toilet purposes, but which might have a future in dermatological work. The pH of the 4 per cent. mucilage is about 9.2.

Emulsifiers that Produce (mainly) Water-oil Emulsions

CHOLESTEROL ($C_{27}H_{46}OH$) AND **WATER-SOLUBLE ALCOHOLS**.—Both substances are w/o emulsifiers. The water-soluble group OH is overbalanced by the relatively enormous hydrophobic groups that the substance must be more easily wetted by oil than water, hence oil becomes the continuous phase. The hydrous ointments made with these agents have a finer grain than those made with sodium cerotate or its equivalent of borax and beeswax.

GLYCOL LAURATE ($C_{11}H_{23}COO C_2H_4OH$) AND **GLYCERYL MONOSTEARATE** ($C_{17}H_{35}COO-C_3H_5(OH)_2$).—By suitable arrangements these substances can be made to improve emulsions made with other agents and are much used in toilet preparations.

ALUMINIUM STEARATE.—By mixing glycerol with oil of theobroma, as much as $M \frac{7}{12}$ of liquid may be included in gr.-15 suppository.

(To be concluded)

MADAGASCAR VANILLA EXPORTS

A PARIS message from Reuter states that Marseilles harbour is gradually resuming its rôle as world distributor of Madagascar vanilla and consignments are starting to arrive freely in the port. Two war-time restrictions, however, will continue for some time, it is believed in French trade circles. They are the fixation of a minimum price and a three-monthly distribution among exporters of an export consignment stabilised by the Colonial Government to avoid speculative mass buying. The French Empire produces about 85 per cent. of the world's vanilla output, with Mexico the other main producer. French colonies export only a small part of their crops direct to foreign countries, the main part being sent to Marseilles. France, after having retained home needs (about 50 to 150 tons annually), re-exports the remainder. The war has caused some disturbance in the vanilla market and exports from the French Empire declined sharply, amounting to only 630 tons during the two years 1943-44 as compared with 564 tons in 1938 (376 tons from Madagascar). Stocks of vanilla, which at the beginning of 1945 amounted to 1,000 tons, an excessive figure in normal times, can easily be disposed of, it is maintained, with the United States having asked recently for a new consignment of 300 tons and demand estimated at

least 600 tons. The trade even fears a shortage for this year with the 1945-46 Madagascar vanilla bean crop estimated at 280 tons and in the Commore Island at 90 tons. This total of 370 tons, it is stated, could easily be consumed by the United States and yet from that total about 100 to 150 tons must be supplied to European countries and France. The situation is further aggravated by the fact that the Mexican crop is rather unsatisfactory. Generally the French Government has the practice of establishing an export quota covering two years, but negotiations are said to be under way in the United States for the purpose of persuading that Government to base its export quota on a six months' period rather than a two year's term.

Where the Soap Goes.—The General Post Office states that during the past three months so many soap tablets have become separated from badly-packed parcels that they already weigh 7 cwt., and more arrive daily. They will find their way to the Ministry of Food if not claimed. At the last sale of unclaimed goods eighty bottles of perfume fetched £74, whilst seventy-seven jars of vanishing cream were sold for £6 10s. and forty boxes of face powder for £7 5s.

PHARMACEUTICAL SOCIETY OF IRELAND

J. K. WHELEHAN (president), was in chair at the monthly meeting of the Council of the Pharmaceutical Society of Ireland held in Dublin on January 8, when 10 members present were Messrs. P. A. Brady, P. C. Cahill, T. C. Scott, N. A. Kane, P. Brooke-Kelly, M. Power, Gleeson, G. C. O'Neill, T. B. O'Sullivan, Fullam, F. X. Meagher, H. P. Corrigan, Costelloe, R. Daly, J. P. Kissane, C. J. Men, and P. F. McGrath.

Appointments to Senate Nominating Body

A number of members of the Council agreed to go on a rota of visitors at the forthcoming Licence and Assistants' examinations. A formal resolution was unanimously adopted appointing the president, ex-president (Mr. P. A. Brady), and treasurer (Mr. P. C. Cahill) as members of the Senate Nominating Subcommittee under the Senate Electoral (Panel Members) Act, 1940; the Seal of the Society was affixed to the resolution.

Seasonal greetings were received from the Santo Apostolic; Archbishop of Dublin; Comte Etienne de Beauchamp of Lourdes; presidents of University College, Dublin, and the Royal College of Physicians; the Chief Commissioner of the Civic Guards, the presidents of the Pharmaceutical Societies of Northern Ireland and of Victoria, and Charles A. Gillespie, U.S.A.

Correspondence

Letters were received from the Department of Justice intimating that the Minister had approved of the appointment of Mr. J. Burke, B.A., M.P.S.I., as an examiner for the Registered Druggist examination for the year ending November 1, 1946, and suggesting some slight alteration in a resolution passed at a previous Council meeting regarding exemptions for candidates possessing a science degree and taking a pharmaceutical course. On the motion of Mr. F. X. MEAGHER, seconded by Mr. P. C. CAHILL, the following amended resolution was unanimously passed: "Any candidate for the Licence examination who holds a degree in science in any Irish University may, on application by the candidate, be exempted by the Council from (a) lectures, and or (b) examination in either or both of the subjects of pharmaceutical and general chemistry and botany, provided that the candidate has passed in the University examination for his degree in such subject or subjects; and that the

seal of the Society be affixed thereto." Mr. R. J. Kidney (secretary, Irish Drug Association) wrote: "In reply to your letter of December 27, 1945, I have been instructed by my Committee to confirm the appointments which we have made to the Consultative Subcommittee *re* pharmaceutical legislation as representing this Association, i.e., Messrs. F. X. Meagher and P. F. McGrath."

Mr. J. J. Tierney (treasurer, Chemists' Rugby Club) wrote: "I wish to acknowledge the Pharmaceutical Society's cheque for £25. My committee directs me to express its sincere thanks and appreciation of the Council's munificent grant; its generosity will be a considerable help in discharging the heavy capital liabilities incurred in acquiring the Club's new pavilion and grounds." Miss Frances Quinn (secretary, Chemists' Camogie Club) wrote: "The Club is anxious to equip its players in a manner befitting the profession. The Club is badly in need of proper uniforms. Its resources are slender, and, as most of the members of both junior and senior teams are apprentices, it would be impossible to equip them properly without outside financial assistance. The committee has decided to ask the Council of the Society for a grant of £40." After discussion the Council decided to leave the matter in the hands of the honorary officers, who were asked to see representatives of the Camogie Club.

Registration and Membership

MR. PATRICK J. HOGAN wrote notifying that he had changed his address to 45 Upper William Street, Limerick. The following who submitted certificates were granted Preliminary registration: Cecilia Healy, Alphonsus Geraghty, Mary Buckley, Marie Rose Ryan, Kathleen Frances Stella Loughlin, Joan Elizabeth Heaney, Joseph O'Neill, Margaret Josephine Antonia Gallagher, Ellen O'Callaghan, Mary Grace O'Toole, Thomas Kieran Moore, Mary O'Toole, James Keane, Gerard O'Keefe, Patrick Joseph O'Regan, Mary O'Sullivan, and Michael Leo Woods. THE REGISTRAR (Mr. J. J. Kerr) reported on the death of Samuel Wilson, L.P.S.I., one of the oldest Licentiates in the Register.

Messrs. R. I. Jones, T. J. McGreal, M. J. O'Shaughnessy, and Miss M. G. Wilson, were elected members of the Society. The following were nominated for membership: Messrs. N. Beirne, 55

Annamoe Road, Phibsboro, Dublin; J. E. Cooke, Gorey, co. Wexford; and P. J. Farrell, 15 Vernon Avenue, Clontarf; Misses H. Leonard, 58 Tritonville Road, Sandymount; and A. P. McCarthy, 4 Doyle Road, Cork; Messrs. P. M. Smyth, McGrotty's Medical Hall, Ltd., Lisdoonvarna, co. Clare; Mr. M. Hogarty, 437 Griffith Avenue, Glasnevin, Dublin.

The reports of the House, Law, Schools, and Certificates and Declarations Committees were submitted and approved, the last-named mentioning that 48 candidates had entered for the forthcoming Licence examination; three had withdrawn, and one had been rejected because his declaration was incomplete.

Change of Title

MR. R. DALY moved his adjourned notice of motion "That the Schools of the Pharmaceutical Society of Ireland be and are hereinafter called 'The College of Pharmacy.'" The motion was seconded by MR. FULLAM. MR. DALY said that one of the principal reasons why he urged the change of title was because the word "College" would give the teaching side of the Society's activities more prestige. Since the November 1945 Council meeting he had discussed the matter with some of his colleagues of the Cork Guild of Pharmacy. While they appreciated the point made by Mr. Cahill that the present schools were not pretentious enough to carry the title College, they still felt a change should be made. The Society, in his view, should have a College for its students as good as any other professional college. The Society had definite duties and responsibilities, and the more pretentious and up-to-date the premises they had as a College the better it would be for the students.—MR. BRADY wondered if the term College of Pharmacy was the best that could be used, since it did not bring in chemistry, but he had an open mind on that matter. His idea, and that of his friends in Cork, was that the word College should be used instead of Schools.

MR. BROOKE-KELLY was strongly opposed to changing the title of the Pharmaceutical Society of Ireland. That embodied the Council, the schools of pharmacy, chemistry, botany and materia medica, and everything else. The title of the Pharmaceutical Society of Ireland was as adequate as the titles the Royal College of Surgeons, Royal College of Physicians, old Royal University, National University, or Trinity College. The old

titles were from the beginning and should remain.—MR. DALY said Mr. Brooke Kelly had misunderstood him. He was suggesting that the title of the Society should be changed. He was referring to that part of the premises where pharmacy, chemistry, botany and materia medica were taught.

MR. BROOKE-KELLY: You do not intend to apply to the Statutory office? THE PRESIDENT: No, that is not the intention. The motion applies only to the teaching portion of the building.—MR. MEAGHER: Mr. Daly means to change the name of the Society. It has nothing to do with the building.—MR. BROOKE-KELLY: I would have no objection to calling the Schools of Pharmacy a College, but I would have objection to the title Pharmaceutical Society of Ireland being pulled down.

MR. MEAGHER suggested that the best title they could adopt would be "The College of the Pharmaceutical Society of Ireland." Anybody could start up a school of chemistry or pharmacy, and call it such.—MR. DALY: I think Mr. Meagher has summed it up in a nutshell. The name he suggests would be the ideal one.

The motion was then unanimously adopted in the following terms: "That the Schools of the Pharmaceutical Society of Ireland be and are hereinafter called 'The College of the Pharmaceutical Society of Ireland'."

Veterinary Sales Query.

When question time was reached MR. MCKANE said his Association in May wished to know if there was any further information about the negotiations that have been going on with May & Baker, Ltd. over the sale of veterinary preparations through pharmaceutical chemists. THE PRESIDENT replied that there was nothing to add, though there was reason to believe that the joint committee of the Council and the Irish Drug Association dealing with the matter might have something to report early in February. He could not say that the position had improved, nor would he like to leave any of the country Association under that impression. He could only hope that the news would be good. MR. MCKANE said his Association took a strong view about the withholding of veterinary lines from chemists, and wondered if they should get in touch with the company direct.—THE PRESIDENT said it would be advisable to take no action of this kind until after February. By then the subcommittee should be able to act.

OVERSEAS TRADE NEWS

Chemical Plants for Reparations.—Chemical plants are included in the first list of 173 three industrial plants declared available for allocation on the German reparations account by the Allied Control Council.

Penicillin for Animals.—Penicillin has been promised by Government agriculture officials to Australian farmers in the hope of increasing dairy production. At present mastitis and udder disease in cows lower output by nearly 20 per cent.

French Moroccan Drug Imports.—The United States became the chief source of supply of drugs and medicinal products to French Morocco during the war. The value of all imports during 1938 and 1944 was respectively 22,986,738 francs and 184,146 francs.

Influenza Vaccine for U.S. Public.—A vaccine against influenza, reported to be 75 per cent. effective, is now in large-scale production for civilian purposes in the U. S., states Reuter from New York. Strains of influenza virus are grown in the embryos of hens' eggs, then killed and prepared as a sterile vaccine. This vaccine is claimed to provide immunity from influenza for a period lasting between six months and one year if injected under the skin of a healthy person, although it is not effective in cases where exposure to the disease has taken place before injection. Until the end of November 1945 use of the vaccine was limited to members of the U. S. armed forces where successful results were achieved.

S. Vegetable Oil Imports.—U.S. importers have started to buy tung oil from China. The first shipment arrived recently in San Francisco and another small shipment is expected shortly. These first shipments, it is believed, will not materially alter the present shortage, and domestic consumers will have to wait some time until an appreciable increase in arrivals occurs. U. S. importers expect a cut in palm oil arrivals following larger European requirements, and supplies for soapmakers are expected to be short for some time. The bulk of imports is still forthcoming from the Belgian Congo but it is believed that production will be stepped up in Malaya, Java and Sumatra, even though pre-war levels may not be reached for about two years. Present high prices will do much to increase production as quickly as possible. With negotiations between Ceylon producers and the United Kingdom Food Ministry pro-

ceeding, it is believed that imports of copra and coconut oil from Ceylon and the South Sea Islands which last year reached about 200 million pounds, will be cut down considerably. It is hoped that shipments from the Philippines will reach 25,000 tons a month by the middle of this year and tankers are expected to be available in time to transport the oil. It is believed, however, that total import of copra and coconut oil this year will only reach about 150,000 tons which is about half the 1937-41 average.

Record 1945 U.S. Drug Sales.—Despite the absence of some traditional items and the fact that most essential drugs are still selling at or below pre-war levels, U.S. drug store sales last year established a record—amounting to \$3,000,000,000. This figure compares with sales in 1941 of only \$1,821,000,000. There has been a continuous rise during the war years, as is illustrated by the figure for 1944, when sales aggregated \$2,855,000,000. The curb on prices in face of the general inflationary trend obtaining in the States was achieved by concentrated research on economies, in methods of production and distribution, according to the secretary of the National Wholesale Druggists' Association. As an example, he cited the prices of vitamin products, which had been reduced by 15 and 20 per cent., although their potency had been increased. Statistics of the rapid growth of the U.S. vitamin oil trade have been disclosed by the U.S. Department of Commerce. In 1944, the U.S. produced 796,857 gallons of shark-liver oil, of a value of \$9,619,365. This compares with a 1939 output of only 132,127 gallons, valued at \$843,800. The bulk of production is on the Pacific coast, including Alaska, with the remainder coming from the South Atlantic and Gulf coasts. Before the war, the U.S. imported approximately 95 per cent. of all its requirements of cod-liver oil, most of which was refined in the States. Exports of cod-liver oil amounted to less than 10 per cent. of output in 1942. On the other hand, exports of shark-liver oil rose sharply during the war years, with the U.S. leading world production of this oil, followed by Canada. By 1944, however, Argentina had captured the second place. Producers of vitamin preparations are optimistic regarding the future of exports. Shipments of large amounts of vitamins to liberated areas are likely to continue for some time, and South America is also regarded as a ready market.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include exceptional marine risk insurance and other abnormal charges payable under present conditions.

28 Essex Street, W.C.2, January 16

The week has again been characterised by a steady though not very large volume of business, with few features of interest and no major price changes. Export inquiries have again been brisk, especially from near-Continental countries, but exporters are temporarily handicapped by smallness of stocks and other difficulties.

Business in PHARMACEUTICAL CHEMICALS continues on a fairly active scale but prices, with the exception of a few minor adjustments, are without alteration. A good demand is reported for AMPHETAMINE. The home market for ASPIRIN is fairly well supplied. METHYL SALICYLATE is in good request and supplies appear to be adequate. The package problem remains a source of difficulty to chemical manufacturers and consumers are again urged to assist in this direction by returning empty containers with all possible speed.

THE CRUDE DRUGS markets are quiet, with few changes in quotations, but with a firm tone throughout. The limiting factor to business is mainly lack of supplies but this position will no doubt be rectified in due course as more shipments come to hand. The supply position of ANTIMONY is unchanged with the total production being quickly taken up. Prices of available BALSAMS are steady at previously-quoted figures. BISMUTH METAL is steady at the recent advance. Offers of CANTHARIDES are reported from China. CARDAMOMS are scarce and quotations are at high figures. CASCARA SAGRADA continues in good request, with small arrivals expected. CHILLIES and other SPICES are firm and generally in short supply, despite some recent small arrivals of some varieties. ERGOT continues scarce on spot with forward offers difficult to obtain. Imported SEEDS are in poor supply and many prices are nominal. No. 1 white TRAGACANTH is slightly dearer on spot. WAXES, except Benguela forward, are unchanged.

THE ESSENTIAL OILS situation has undergone no change during the past week. Most of the business in these items is carried on through the official distribution scheme and any sales outside would be of negligible proportions. As noted last week REFINED OILS will be unchanged for the next eight-week period.

U.S. Drug Market Report

New York, January 16

THE first week of the New Year era with heavy chemicals in a tight supply condition while labour troubles and shortness of materials, in addition to certain transportation problems, will govern the future position of markets. Export inquiries have been plentiful though in many cases lack of containers and packing materials will make their satisfaction difficult. Government control on CINCHONA products will remain in force until well after the middle of the year, it is believed. Meanwhile, it is announced that the Reconstruction Finance Corporation in New York will accept bids for a long list of surplus chemicals from January 14. If reports of a large shipment of glycerin from Britain to the U.S. materialise, some relief to the tight domestic supply situation may be expected in the near future. Meanwhile shortages are in evidence in most commodities, exceptions being MENTHOL, COD-LIVER OIL and the TARTRATES. The crop production season for COD-LIVER OIL has begun in Norway, but there has been a notable decrease in the demand for it in the U.S. of recent years. It is not believed here that the devaluation of the franc will affect the supply of LAVENDER FLOWERS or VANILLA BEANS from France or her colonies; with the opening up of European markets, supplies of the latter to the U.S. will run seriously behind requirements, it is feared. Notable offerings among BOTANICAL DRUGS and SPICES included some STAR ANISE SEED and a small quantity of Saigon CASSIA, though little hope is held for further supplies from this source. Since France has been unable to acquire any Rumanian MUSTARD, considerable demand for the Oriental-type seed grown in Montana has been in evidence. Only limited quantities of PEPPERMINT LEAVES are available, those being of domestic origin, while the scarcity of DANDELION has been somewhat relieved by a recent shipment from Argentina. Dutch POPPY SEED, used here mainly for confectionery decoration, is in an exceedingly tight supply position. Some price reductions among AROMATIC CHEMICALS reflect the easier position regarding availability of raw materials.

Pharmaceutical Chemicals

ETANILIDE.—Makers report a good demand; prices are unchanged. Powder is quoted 1s. 5d. per lb., and crystals, one penny extra.

SPIRIN.—Home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. 1½d. (1-lb.); 4s. (4-lb.); 3s. 10½d. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. (28-lb.).

SPIRIN TABLETS.—Scales per 1,000, for supplies, are as follows: Under 5,000, 1s. 4d.; 5,000 and over, 3s. 4d.; 10,000, 3s. 3d.; 20,000, 3s. 1d.; 50,000, 3s.; 100,000, 2s. 11d.; 200,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000,000, 1s. 11d.

ARIUM SULPHATE, B.P. (x-ray).—Home market prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 6d. (1-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

ENZYL BENZOATE.—Available for medicinal purposes at the unchanged price of 5s. 6d. per lb. in 7-lb. tins, 4s. 6d.

SMUTH CARBONATE.—Prices per lb. for the home market, in quantities of 14 lb.—28 lb., are as follows (containers in brackets): 11s. 2½d. (1-lb.); 11s. 1½d. (2-lb.); 11s. 1d. (4-lb.); 10s. 11½d. (7-lb.); 10s. 11½d. (14-lb.). CITRATE, 2s. 10d. above; SALICYLATE, 6d. per lb. above; ALLATE, 4s. 3d. per lb. above; SUBNITRATE, 1d. per lb. below.

ORAX.—Current rates per ton are as follows: quality, granulated, £38; crystal, £39; powder, £39 10s. Commercial grades, £8 per cwt. less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots upwards.

ORIC ACID.—Current rates per ton are as follows: B.P. quality, granulated, £60; crystal, powder, £62. Commercial grades, £8 per cwt. less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots upwards.

RUCINE.—Current rates per oz. are as follows: ALKALOID.—Under 25 oz., 1s. 4½d.; 25 oz. and under 100 oz., 1s. 4d.; 100 oz. and under 500 oz., 1s. 3½d. NITRATE and SULPHATE.—Under 25 oz., 1s. 3½d.; 25 oz. and under 100 oz., 1s. 3d.; 100 oz. and under 500 oz., 1s. 2½d.

FLORAL HYDRATE.—Current prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; 3 lb., 5s. 3d.

TRATES.—Prices per lb. current in the home market for POTASSIUM CITRATE, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 7½d. (1-lb.); 3s. 6d. (4-lb.); 3s. 5d. (7-lb.); 3s. 4½d. (14-lb.); 3s. 3½d. (28-lb.). FERRI ET AMMON. CIT., B.P., 2d. per lb. above; SODIUM, B.P., 3d. per lb. below; POTASSIUM, 1d. per lb. extra.

ODINE.—Current prices per oz., for small quantities are as follows: Base.—½ oz., 55s. 3d.; 1 oz., 55s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE.—½ oz., 50s.; 1 oz., 49s. 6d.; 2 oz., 46s.; 3 oz., 45s. 3d.; 4 oz.,

45s. PHOSPHATE.—½ oz., 43s. 9d.; 1 oz., 41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 4 oz., 38s. 9d.

DEXTROSE.—Prices per lb. current in the home market for bulk supplies are as follows: 14 lb.—28 lb., in 14-lb. lots, 1s. 0½d.; 28 lb.—112 lb., in 14-lb. lots, 1s.; in 28-lb. lots, 11d.

DIAMORPHINE.—Current rates per oz. for small quantities are as follows: Base.—½ oz., 58s. 6d.; 1 oz., 56s.; 2 oz., 54s. 6d.; 3 oz., 53s. 9d.; 4 oz., 53s. 6d. HYDROCHLORIDE.—½ oz., 54s. 3d.; 1 oz., 51s. 9d.; 2 oz., 50s. 3d.; 3 oz., 49s. 6d.; 4 oz., 49s. 3d.

ETHYLMORPHINE.—Small quantities are quoted per oz. by makers as follows: Base.—½ oz., 61s. 6d.; 1 oz., 59s.; 2 oz., 57s. 6d.; 3 oz., 56s. 9d.; 4 oz., 56s. 6d. HYDROCHLORIDE.—½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s.; 3 oz., 48s. 3d.; 4 oz., 48s.

GLUCOSE.—Home trade prices per lb. for powdered monohydrate are as follows: 14 lb.—28 lb., in 14-lb. lots, 11½d.; 28 lb.—112 lb., in 14-lb. lots, 11½d.; in 28-lb. lots, 10½d.

GUAIACOLS.—Small quantities are quoted as follows: Liquid, 16s. per lb.; crystals and carbonate, 15s. per lb., in 7-lb. containers.

HOMATROPINE.—Makers' prices per oz., are as follows (prices per gram in brackets): ALKALOID.—1 oz., 95s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (6s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

IODINE PREPARATIONS.—Current rates are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s. 3d.; 28 lb., 9s. 9d.; 14 lb., 10s. 3d.; 7 lb., 11s. 9½d.; 4 lb., 12s. 3½d.; smaller quantities, 12s. 9d. per lb. SODIUM IODIDE, B.P.—28 lb., 10s. 2d.; 14 lb., 10s. 8d.; 7 lb., 12s. 5½d.; 4 lb., 13s. 1½d.; smaller quantities, 13s. 11d. IODOFORM, B.P.—28 lb., 13s. 4d.; 14 lb., 13s. 10d.; 7 lb., 16s. 0½d.; 4 lb., 16s. 10½d.; smaller quantities, 17s. 8d. IODOFORM CRYSTALS.—2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 8d.; 28 lb., 11s. 2d.; 14 lb., 11s. 8d.; 7 lb., 13s. 5½d.; 4 lb., 14s. 1½d.; smaller quantities, 14s. 10d.

LACTATES.—Prices are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb.; 14 lb., 3s. 4d.; 28 lb., 3s. 2d.; granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Home market prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 4d. (1-lb.); 1s. 2½d. (4-lb.); 1s. 1½d. (7-lb.); 1s. 1d. (14-lb.); 1s. (28-lb.). Prices net one month.

MAGNESIUM CARBONATE, HEAVY.—Prices per lb. for the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 7d. (1-lb.); 1s. 5½d. (4-lb.); 1s. 4½d. (7-lb.); 1s. 4d. (14-lb.); 1s. 3d. (28-lb.).

MAGNESIUM TRISILICATE.—Prices per lb. in the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.).

MANDELATES.—Makers' quotations are unchanged. **SODIUM AND CALCIUM.**—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. **AMMONIUM** (50 per cent. solution).—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb.) packages, 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb., net. Packages extra and returnable.

MANDELIC ACID.—Current rates are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE.—Continues in good demand at unchanged prices. Small, 2s. 6d. per lb.; winchesters, 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

PHENOLPHTHALEIN.—Current rates are as follows: Less than 7 lb., 4s. 8d. per lb.; 7 lb., 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt., 4s. 4d.

POTASSIUM PERMANGANATE.—Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. **TECHNICAL** (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. **TECHNICAL** (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms net, carriage paid station, containers extra and returnable.

PULV. BISMUTH. CO., N.F.—Prices per lb. current in the home market, for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 2s. 6d. (1-lb.); 2s. 4½d. (4-lb.); 2s. 3½d. (7-lb.); 2s. 3d. (14-lb.); 2s. 2d. (28-lb.).

SANTONIN.—Prices per kilo are as follows (price per oz. in brackets): 25 kilos, £42 (23s. 10d.); 10 kilos, £43 (24s. 5d.); 5 kilos, £44 (24s. 11d.); 2-4 kilos, £45 (25s. 6d.); 1 kilo, £46 (26s. 11d.); 500 gm., £47 (26s. 8d.); 250 gm., £48 (27s. 3d.); 100 gm., £49 (27s. 9d.); smaller lots, £50 (28s. 4d.).

SULPHANILAMIDE.—Supplies are good and the price is steady at from 8s. to 9s. per lb., according to quantity.

TERPINEOL.—Pure medicinal quality is available at from 3s. 3d. to 4s. per lb., according to quantity.

THEOBROMINE.—The following prices are ruling: **ALKALOID.**—Small, 44s. 6d. per lb.; 7 lb.—28 lb., 43s. **SODIUM SALICYLATE.**—Small, 26s. 6d.; 7 lb.—28 lb., 25s. 3d. Tins extra.

Crude Drugs

ANTIMONY.—Sales continue well up to production capacity at unchanged prices. English minimum 99 per cent. regulus, £112 10s. per ton, delivered; 70 per cent. crude, for the home trade, £90.

ARECA NUTS.—No supplies may be obtained on spot, but new shipments are expected.

BALSAMS.—Small quantities of *Canada* may be obtained on spot at the last-quoted price, 13s. 6d. to 14s. per lb.; *Peru* is steady at 8s. 3d. per lb.; *Tolu* and *Copaiba* are obtainable.

BELLADONNA.—Low-testing Indian root quoted at 2s. 3d. per lb.; English herb, 4s. per lb.

BENZON.—Demand continues but no supplies are available.

BISMUTH.—Metal is quoted at 6s. 8d. per lb. for minimum 5-cwt. lots.

BUCHU LEAVES.—Any available spot supply would be worth 5s. 6d. per lb.

CANTHARIDES.—Offers of Chinese are reported at 34s. per lb., f.o.b.

CARDAMOMS.—Scarce; very firm. All seed, spot, 8s. per lb.; Aleppy greens, 7s. 3d. per lb., spot.

CHAULMOOGRA.—Spot price of *Hydnocarpus* in tins in cases, is unchanged at 2s. per lb.

CHILLIES.—Steady. Spot, approximately 130s. per cwt.

CINNAMON CHIPS.—Spot quotations are changed at 2s. 2d. per lb.

CLOVES.—Firm but no higher. Zanzibar spot, London, 1s. 8d. per lb., sellers; at 1s. 4½d., sellers.

COCHINEAL.—Silvers are quoted on spot at 5s. 9d. per lb.

COCOA BUTTER.—Sales at the official price must not exceed 1s. 5½d. per lb. Higher prices may be charged under licence.

COLOCYNTH.—Fair-quality white pulp spot would be worth from 2s. 6d. to 2s. 10d. per lb., according to seller.

DIGITALIS LEAVES.—English leaves, 2s. per lb.; Portuguese, 140s. per cwt.

ERGOT.—In very poor supply. Spot would be worth 7s. 6d. per lb.

GINGER.—West African, spot, 85s. per cwt. **GUM ACACIA.**—Kordofan cleaned sort offered on spot at 73s. per cwt.; bleached spot, 145s.; Talha, cleaned, 42s. 6d.

HENBANE.—Indian leaf is unchanged on spot at 250s. per cwt., and Egyptian (*muticus*) 85s.

JALAP.—Material containing 10 per cent. resin would be worth 3s. 6d. per lb. on spot.

KAMALA.—Powder testing 6 per cent. spot, 2s. 9d. to 3s. per lb.

KARAYA GUM.—Indian No. 1 gum, 210s. per cwt.

MALE FERN ROOT.—Indian root is quoted on spot at 85s. per cwt.

MERCURY.—Prices are controlled by O.T.C. & D., October 13, 1945, p. 388.

MYRRH.—About £18 per cwt. would be current spot value of good-quality Aden sorts.

NUTMEGS.—Supplies are difficult at present. Current prices are: West Indian, 80's, 4s. 10d.; sound unassorted, 3s. 8d.; wormy and broken, 3s. 4d.

EX VOMICA.—Cochin, washed and garbled, quoted from origin at 37s. 6d. to 40s. per c.i.f.

PEPPER.—Whole, not picked over or cleaned, sale to processors, is officially priced at rs. 4d. for white and rs. per lb. for black.

MENTO.—Spot price is lower at rs. 5d. per c.i.f.

SEEDS.—Quiet and unchanged. As noted week English CORIANDER is now available at 125s. per cwt., sellers. Other prices as follows: ANISEED.—Turkish, spot, 2s. 8d.

CUMIN.—Maltese, spot, 150s.; Indian, available. DILL.—Spot, London, 80s.;

FENNEL.—Nothing available.

MUSTARD.—The Standard Seed Order, 1945, replaces the Mustard (Control and Maximum Prices) Order, 1942.

NEGATIVE ROOT.—Would be worth about 6d. to 12s. per lb., if available.

ANNA.—Good demand for Alexandrian oil-picked pods; price nominal at 4s. per lb.

MANUFACTURING ALEXANDRIAN PODS. 2s. per Tinnelly leaves, No. 1, 10½d. per lb.; No. 2, 8½d.; No. 3, 7d.

PROPHANTHUS SEED.—Kombé seed, 100 per cwt., 7s. per lb.

RAGACANTH.—Spot prices of medium grades as follows: No. 1 white, £145 per cwt.; No. 2, white, £120; No. 3 white, £105; No. 4 e, £85; pale leaf, £60; amber leaf, £50; amber, £35; brown leaf, £25; red-and-amber leaf, £20; red leaf, from £17; hoggy, to £15.

BERMERIC.—Sound-quality Madras finger now be obtained on spot at 120s. per cwt., for forward shipment, unchanged at 67s. 6d. cwt., c.i.f.

WAXES.—BEESWAX.—No further application could be made to the Association of Merchant Distributors of Beeswax for supplies of this commodity. These should, in future, be obtained through ordinary channels. DAR-ESSAM, February–March shipment, 295s. c.i.f.; Benguela, January–February shipment, 285s. cwt., c.i.f. CARNAUBA.—Fatty grey, 675s., landed; February–March–April shipment, 600s., nominal, c.i.f.; chalky grey, not available; March–April shipment, 600s., nominal; prime yellow, spot, 800s., nominal;

February–March shipment, 710s., nominal, c.i.f.

Essential and Expressed Oils

ASTOR.—Bulk supplies are officially quoted as follows: "Firsts," £82 per ton; "seconds," both naked ex works.

LOVE.—English-distilled bud oil is unaltered from 12s. 6d. to 13s. per lb., according to quality.

COCONUT.—The following are the fixed prices for bulk quantities: Crude, £49 per ton; deodorised, £49; refined hardened deodorised, £53.

ORTONSEED.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, 55s.; refined edible, £57; refined deodorised, £58, naked ex works.

GROUNDNUT.—Refined deodorised is officially priced at £58 per ton, ex works, in bulk quantities.

OLIVE (EDIBLE).—Price charged to wholesaler by importer is 25s. 9d. per gall., ex store. Prices charged by wholesalers to retailers are agreed by Ministry of Food as follows: 33s. 6d. per gall. in 1-gall. loan cans; 34s. 3d. in ½-gall. loan cans; 35s. in 1-quart loan cans; 36s. per gall. in 1-pint cans.

COMING EVENTS

Tuesday, January 22

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Birkenhead Photographic Club, 63 Argyle Street (next Savoy Cinema), Birkenhead, at 7.15 p.m. Mr. A. L. Bacharach, M.A., on "Penicillin."

AGRICULTURAL GROUP, SOCIETY OF CHEMICAL INDUSTRY, Chemical lecture theatre, Royal College of Science, Exhibition Road, South Kensington, London, S.W.7, at 2.30 p.m. Professor R. H. Stoughton on "A Method for Direct Nutrition of Plants"; Dr. W. G. Templeman on "Sand Culture: Automatic Surface Application of Nutrients."

Wednesday, January 23

FINCHLEY DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION, East Finchley Library, High Road, London, N.2. Dr. G. R. Boyes on "Some Recent Advances in Therapeutics."

Thursday, January 24

MANCHESTER BRANCH, CHEMICAL SOCIETY, Chemical lecture theatre, Manchester University, at 6 p.m. Dr. W. A. Waters, M.A., on "Some Recent Developments in the Chemistry of Free Radicals."

Friday, January 25

ST. HELEN'S SECTION, BRITISH ASSOCIATION OF CHEMISTS, Y.M.C.A. Buildings, St. Helen's, at 7.30 p.m. Mr. C. Jones, B.Sc., on "Chemistry of Clays."

NOTTS AND DERBY SECTION, BRITISH ASSOCIATION OF CHEMISTS, Room 104, Leicester Technical College, at 7 p.m. Mr. S. H. Wilkes (H.M. senior chemical inspector of factories) on "Protection against Industrial Poisons."

Sunday, January 27

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to New Mills, Kettleshulme and Strines. Meet London Road station, 9.40 a.m. Book New Mills return.

Bulletin of Bee-keeping.—The Ministry of Agriculture and Fisheries has issued a bulletin entitled "Bee-keeping" (Stationery Office, price ninepence), by Dr. C. G. Butler, of the Rothamsted Experimental Station.

TRADE MARKS

(From the "Trade Marks Journal,"

January 2)

"A-LADD-IN"; for compounds for preventing laddering in stockings (1). By Solo Laboratories, Ltd., 103 Walmer Road, London W.10. 632,499.

"OSCARNO"; for fertilisers (1). By Fisons, Ltd., Harvest House, Ipswich. 636,885.

"DEVAX"; for photographic chemicals (1). By Elliott & Sons, Ltd., Talbot House, Park Road, Barnet, Herts. 637,046.

"SHENOFIX"; for hair cream (3). By A. G. Vezza, 528-32 Duke Street, Glasgow, E.1. 632,712.

"JE NE SAIS QUOI"; for perfumes, toilet and cosmetic preparations, mouth-washes, perfumed sachets, depilatory preparations, bath salts (3). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1. 636,693.

"VIMOLA"; for all goods (5). By Koray, Ltd., 56 Gamage Building, Holborn, London, E.C.1. 625,374.

"SUPOL"; for pharmaceutical preparations for use in the treatment of stomach or bowel complaints. "PIZENTA"; for use in the treatment of rectum complaints (5). By F. H. Johnson, 5 Alexandra Grove, Finsbury Park, London, N.4. 636,764-65.

"CALIGESIC"; for all goods (5). By Sharp & Dohme, Ltd., 4 Brocket Road, Hoddesdon, Herts. 637,170.

"WELTEX"; for surgical prostheses, surgical instruments and apparatus, excluding surgical gloves (10). Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 634,396 (Associated).

"PRANG"; for traps for flies, insects and vermin (21). By Allcock Manufacturing Co., 4-8 Argyle Street, Birkenhead. 635,853.

The word "SEAGULL"; the device of a seagull; the word "TURNPIKE"; and the device of a turnpike; for brushes (21). By A. Butler, Ltd., Corner of Mount Street and South Road, Poole, Dorset. 636,361-62-65-66 (All Associated).

"FORBIDDEN"; for meat extract, dried herbs (for food), pectin, flavourings (excluding essential oils), honey, etc. (29). By J. C. Doughty, Ltd., 31 Cank Street, Leicester. 636,342-43 (Both Associated).

APPLICATIONS AMENDED AFTER ADVERTISEMENT
Specification No. B626,887, by W. R. Warner & Co., Ltd., should be altered so as to read "Vitamin preparations for pharmaceutical purposes."

Specification No. 631,738, by Calmic, Ltd., should be altered so as to read "Tonic preparations for use in the treatment of anaemia."

Specification No. 634,028, by The Times Food Products Co., Ltd., should be altered so as to read "Pharmaceutical and sanitary substances."

Specification No. 634,970, by Roche Products, Ltd., should be altered so as to read "Pharmaceutical substances for human use and for veterinary use."

Specification No. 636,313, by the Society Chemical Industry in Basle; the name of the applicants should be altered to Ciba, Ltd.

(From the "Trade Marks Journal,"

January 9)

"ZUTT"; for chemical chimney cleaners (1). By Northern Laboratories, 24 School Lane, Didsbury, Manchester, 20. B629,099.

"TEEPODOL"; for industrial, scientific, photographic, agricultural, horticultural and forestry chemicals (excluding weed killer insecticides and fungicides) (1). By Technical Products, Ltd., 29 Great St. Helen London, E.C.3. 635,605 (Associated).

Monogram of letters AVLON; for industrial, scientific, photographic and food-preserving chemicals (1); soaps, perfumery, essential oils, toilet and cosmetic preparations, antiseptics (3). By Imperial Chemical (Pharmaceuticals), Ltd., Wexham Road, Slough, Bucks. 636,587-88 (Both Associated).

"BELLA"; for sachets containing substance for use in waving the hair (3). By H. Christie, 6 Adelaide Street, Belfast B630,983.

"FOULARD"; for liquid perfumes (3). By Societe D'Etudes et D'Expansion de la Parfumerie de Luxe, c/o A. W. Parfitt Stafford House, Norfolk Street, London W.C.2. 634,016.

"JENESTOL"; for soaps, perfumery, essential oils, toilet and cosmetic preparations, antiseptics (3). By Nesta Wood, 171 Lowe Richmond Road, London, S.W.14. 635,593.

"ORADENE"; for perfumery, toilet and cosmetic preparations, mouth-washes, depilatory preparations, bath salts, toilet preparations for artificial dentures, etc. (3). By C. F. H. Cooper, 59 Bardon Chambers Infirmary Street, Leeds, 1. 636,330 (Associated).

"SMILAX"; for soaps and laundry preparations, etc. (3). By P. Lunt & Co., Ltd., Park Lane, Aintree, Liverpool. 636,506 (Associated).

"LESDEN"; for toilet and cosmetic preparations, perfumes (3). By Par-Products, 3 Stone Street, Dudley, Worcs. 637,022.

"NORDERMA"; for toilet preparations for the skin (3). By Nor-Sun, Ltd., 160 Central Drive, Blackpool. 637,423.

"TAJ MAHAL"; for toilet preparations (3). By R. Desvaux & Co., 1 Shorrolds Road, Walham Green, London, S.W.6. 637,465.

"TARBONIS"; for pharmaceutical preparations containing tar, for use in the treatment of the skin (5). By Drel, Inc., c/o F. B. Dehn & Co., Kingsway House, 103 Kingsway, London, W.C.2. 633,918.

"EYEOLEX"; for medicated eye lotions (5). By B. J. S. Hammond, 9 Bruce Grove, Tottenham, London, N.17. 636,188.

"MARGRESOL"; for pharmaceutical preparations for human use (5). By G. W. Scaddan, The Broadway Pharmacy, Didcot, Berks. 636,186.

HOWARDS' QUININE IS HERE AGAIN

*Subject to licence
from the
Ministry of Supply*

HOWARDS & SONS LTD. (EST. 1797) ILFORD

ALL BRITISH PRODUCTS

Progallin A
REGD.

Progallin P
REGD.

These are the two representatives of Alkyl Gallates, extensively tested for years by teams of famous research workers and finally approved as the most

reliable and harmless Antioxidants

- | | |
|--|---|
| <p>1 FOR THE PREVENTION OF AUTOXIDATIVE RANCIDITY IN VEGETABLE & ANIMAL FATS AND OILS</p> | <p>2 FOR THE PROTECTION OF ESSENTIAL OILS & AROMATIC COMPOUNDS FROM AUTOXIDATION</p> |
|--|---|

- 3** FOR THE INHIBITION
OF PEROXIDE FORMATION
IN ETHERS

References

- | | |
|---|---|
| <p><i>Chemistry and Industry</i>, 1944, 67. <i>Chemistry and Industry</i>, 1944, 127. <i>Quarterly Journal of Pharmacy and Pharmacology</i>, 1943, 232. <i>Pharmaceutical Journal</i>, 1943, 58. <i>The American Perfumer</i>, 1943, 163.</p> | <p><i>Journal of the Society of Chemical Industry</i>, 1944, 107. <i>Journal of the Society of Chemical Industry</i>, 1944, 8. <i>Oil and Soap</i>, 1942, 144. <i>Oil and Soap</i>, 1945, 81. <i>Nature</i>, 1944, 824.</p> |
|---|---|

Write us for testing samples and further particulars

NIPA LABORATORIES LTD., TREFOREST TRADING ESTATE, MR. CARDIFF
MANUFACTURERS OF PRESERVATIVES ANTISEPTICS AND ANTIOXIDANTS

Tel.: Tafts Well 128

SOLE DISTRIBUTORS FOR THE UNITED KINGDOM
P. SAMUELSON & CO.
Africa House, 44-46 Leadenhall Street, London, E.C.3.

Tel.: Royal 2117-8

"Eagle" Brand Chemicals
B.P.
PRECIPITATED SULPHUR

PHOTOGRAPHIC HYPO
AND
SULPHITE
— CRYSTALS and ANHYDROUS —

**EPSOM SALTS
GLAUBER SALTS
ARSENATE OF LEAD**

Enquiries Invited

JOHN RILEY & SONS, LTD.
Chemical Manufacturers
HAPTON near BURNLEY

Telegrams
"Rileys Hapton"

Telephone
Padiham 290/1

GRAESSER SALICYLATES LIMITED
Manufacturers of Fine Chemicals
SANDYCROFT
CHESTER, ENGLAND

PHENYL SALICYLATE
B.P.C.

(SALOL)

Available in the form of Crystalline Powder for which we invite your enquiries

INFORMATION...

PURCHASE TAX EXEMPTION

UNDER TREASURY ORDER entitled
PURCHASE TAX (EXEMPTIONS) (No. 2)
ORDER 1945

KADAMYSIN

HITHERTO KNOWN AS
ASTHMOLYSIN

is exempt from PURCHASE TAX
AS FROM OCTOBER 20th, 1945

*The order is not retrospective. Tax
already paid on goods in Retail Stock
cannot therefore be refunded*

CHAS. ZIMMERMANN & CO. LTD.
9 & 10 St. Mary-at-Hill, London, E.C.3

Telephone:
Mansion House 6005

Telegrams.
Acidolan Bilgate, London



INDUSTRIAL and FINE CHEMICALS

including :

HYDROGEN PEROXIDE

- Benzoyl Peroxide
- Calcium Peroxide
- Magnesium Peroxide
- Sodium Perborate
- Sodium Percarbonate
- Titanium Dioxide
- Urea Hydrogen Peroxide
- Zinc Peroxide

LAPORTE

8. LAPORTE LIMITED, LUTON. Eng.

RELY UPON



R. GRAESSER LTD

The Chemical Works, Sandycroft, nr. Chester

GUM TRAGACANTH

DIRECT IMPORTERS:

N. S. DANGOOR, LTD., PROVINCIAL HOUSE, 98/106 CANNON ST., E.C.4

Phone: MANSION HOUSE 4781

Carmel Exporters & Importers Ltd.

15 SEETHING LANE, LONDON, E.C.3

Invite Home and Export enquiries for

BICARBONATE OF SODA

BORIC ACID

GLAUBER and EPSOM SALTS

ASPIRIN TABLETS, SPICES

CULINARY HERBS, CULINARY

ESSENCES, HOUSEHOLD DYES

All packed and loose. Also for

CHEMICALS and DRUGS

GUM TRAGACANTH

GUM KARAYA

WHOLE AND POWDERED

M. HAMBURGER & SONS

DIRECT IMPORTERS

Ceylon House.

EASTCHEAP, LONDON, E.C.3

Telephone: Mansion House 4139

MILLAMALT

The VITAMIN
MALT FOOD

With Vitamins (A 6,500 I.U., D. 400 I.U.)
per fl. oz.

Sole Manufacturers
JEFFREYS MILLER & Co. Ltd. Leyland Mills, WIGAN, London Dept. 19 Brookside Road, N.19



A-D CAPSULES N.W.F

CAPSULA LIQUORIS VITAMINORUM A et D
CONCENTRATI
(CAPS. LIQ. VITAMIN A et D CONC.)
NATIONAL WAR FORMULARY, AMENDMENT
No. 2 (JANUARY 1943)

Each capsule is equivalent in Vitamin
content to 4,500 units of Vitamin A
and 450 units of Vitamin D in 3 minims
of an oily medium.

DOSE: 1-2 Capsules a day, or as other-
wise prescribed.

Price on application

ORGANON LABORATORIES LTD.

BRETENHAM HOUSE, LONDON, W.C.2.

Telephone: Temple Bar 6785

Telegrams: Menformon, Rand, London

South Africa and Rhodesia

The Leading Chemists are
LENNONS

They have been established in all centres of
any importance for many years and offer
modern facilities for manufacturing
as well as Wholesale and Retail
Distribution throughout
the territory.

If you are seeking reputable representatives or
desire information about the market write to

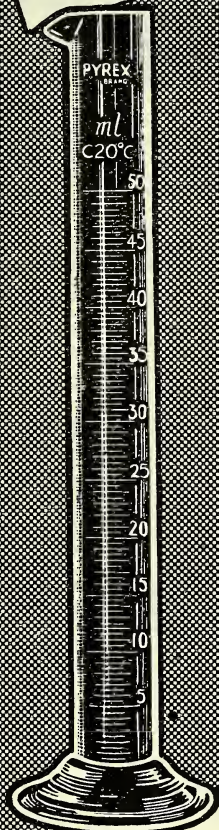
LENNON LIMITED

Head Office: P.O. BOX 8389

**JOHANNESBURG
SOUTH AFRICA**

PYREX

REGISTERED TRADE MARK
GRADUATED
GLASSWARE



By specifying "PYREX
Brand" when ordering
Graduated Glassware
you are assured of ob-
taining strong service-
able glassware, with
division lines and
numerals etched clearly
and precisely, for easy
reading.

For everyday laboratory
work PYREX Brand
Glassware is Graduated
to N. P. L. class B
standard, but for more
meticulous analysis or
intricate research work,
N. P. L. class A
can be supplied at the
appropriate extra costs.

PYREX Brand Gradu-
ated Glassware is
supplied only through
Laboratory Furnishers,
but illustrated catalogue
and two free copies of
our Chemist's Notebook
will be sent direct on
application to us.

Ask for PYREX
Brand and see
that you get it!

**JAMES A. JOBLING & CO., LTD.
WEAR GLASS WORKS
SUNDERLAND**



"NOW, REGARDING OUR LIGHTING PLANS..."

THE importance of planned lighting cannot be exaggerated. Sufficient light is not enough. Modern practice takes heed of the *psychological* and *aesthetic* aspects as well as the "fitness-for-purpose" of a lighting installation. Appearance, quality, accessibility, economy are other vital considerations ranging far beyond the question of actual light. *All are catered for by the famous Mazda range of lamps and fittings.*

MAZDA

LIGHTING ADVISORY SERVICE. *All concerned with the installation or renewal of lighting are invited to communicate with our Lighting Advisory Service, Bridle Path, Watford. Phone 5811*

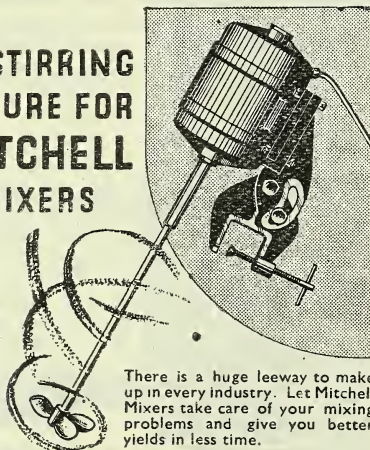
LAMPS IN MAZDALUX FITTINGS

The British Thomson-Houston Co. Ltd.

Crown House, Aldwych, London, W.C.2



A STIRRING FUTURE FOR MITCHELL MIXERS



There is a huge leeway to make up in every industry. Let Mitchell Mixers take care of your mixing problems and give you better yields in less time.

MITCHELL

RAPID MIXING & STIRRING UNITS

WEX 7

L.A. MITCHELL LIMITED
37, PETER STREET, MANCHESTER, 2

Telephone: BLACKfriars 7224 (3 lines).

SALTER

Self-Indicating
Personal & Baby
SCALES



Now sold by licence for essential use
Details on request

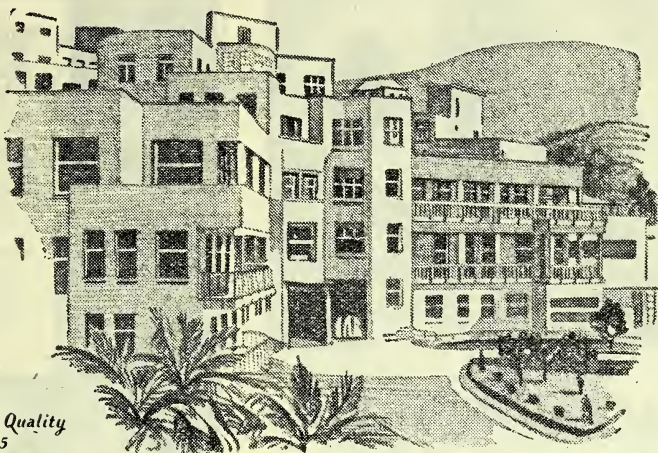
GEO. SALTER & CO. LTD.
WEST BROMWICH

M-W. 63

ITALY

Genoa Hospital

questionably ranks as
outstanding example
the best modern
an architecture. Its
airable lay-out en-
sures the greatest pos-
sible amount of sunlight
shining every part of
building.



SURGICAL DRESSINGS

ONLY WHOLESALERS SUPPLIED

The "MODERN" TEAT

Nearest to Natural

Feeding.

ANTI-COLIC



Will stand repeated

Sterilisation.

LASTS LONGER

and VALVES Etc.

HOT WATER BOTTLES

"RIPPLE" and "DOLPHIN"

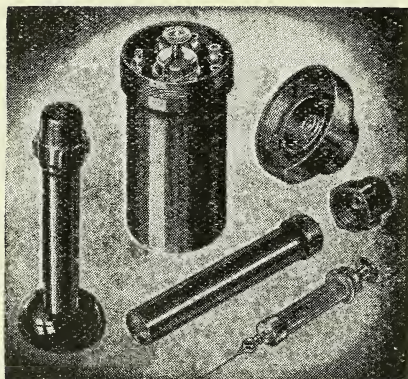
GUARANTEED and TESTED

Supplies for the moment available only to those on our books, but we hope to include new customers for next season.

Samples and quotations on request.

CANNON RUBBER PRODUCTS

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17



SURQUAL^{REGD} PLASTIC SPIRIT-PROOF SYRINGE CASES

SURGICAL EQUIPMENT SUPPLIES LTD

NORTH ACTON W.3 Tel.: ACORN 32123

Obtainable at all leading dealers

"WEBSTER'S"

STAINLESS STEELWARE

Specialists in modern equipment for manufacturers i.e., Funnel Buckets, Jugs, Mixing Containers, Measures, Percolators, Boggles, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economic proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.

ISAAC WEBSTER & SONS, LTD
ABBAY WORKS, KIRKSTALL, LEEDS

Telephone: 51580 Headingley. Telegrams: Isaac Webster, Leeds

Super Quality
ABSORBENT
COTTON WOOLS and
COTTON WADDINGS

THE IMPERIAL PATENT WADDING CO. LTD.
(Dept. 8), 16 Tariff St., MANCHESTER
Phone: CEN. 1768.

THE RELIABLE
Edosan
SAN TOWELS

EDOSAN LTD., 1416 PEEL ROAD, LONDON, W.

TAMPAX
SANITARY PROTECTION
Worn Internally

"ANGLIAN"
SURGICAL DRESSINGS



"NORWICH"
CREPE BANDAGES

WRITE CROSSKILLS' OF NORWICH

SOLE DISTRIBUTORS OF "NORVEX" SAN. TOWELS

PHONE
20954

RUBBER HOT WATER BOTTLES ARE SCARCE

THE ORIGINAL **Reliance** SEAMLESS MOULDED

2-5 SYNTHETIC & NATURAL RUBBER COMBINED

During the war years, hot water bottles have not been made. After this interval, there is a pent-up demand which cannot be satisfied quickly with present restricted labour force. Inevitably, there will be a shortage this coming winter but we will do all we can to distribute available supplies fairly to those on our books in 1938-1939. Despatch will be made in turn and notice from customers is not necessary.

We cannot supply friends not on the 1938-1939 list for the moment, but please write and register your needs for future attention. Reliance aims to double its 1939 record output next year.

RELANCE RUBBER Co. Ltd.,
REMORNE WORKS, LOTS RD.
LONDON S.W. 10
TELEPHONE FLAXMAN 6200-4263

Mathaplast[®]

REG^d

ELASTIC DRESSING

A non-slipping, comfortable, antiseptic wound dressing. Easily applied. Retail, 6d. and 1s. Also supplied 1 yd. packs in various widths. Usual Trade Terms.



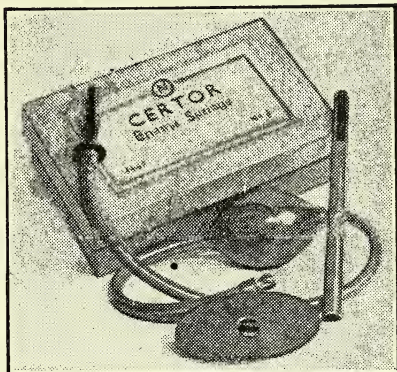
In view of restricted supplies of rubber, strictly rationed quantities only of all lines will be allocated to regular customers

WILLIAM MATHER LIMITED

Dyer Street, Manchester, 15 (Est. 1826)

CERTOR

ENEMA SYRINGE



A reliable range of enemas in four qualities is obtainable. The boxes are neatly labelled and each wrapped in transparent tissue.

- | | |
|--------|---------------|
| No. 1. | 40/- per doz. |
| No. 2. | 46/- per doz. |
| No. 3. | 54/- per doz. |
| No. 4. | 60/- per doz. |

RUBBER SHEETING

A good quality double-proof Sheet-ing at 5/6 per yard, plus 33 $\frac{1}{3}$ % Purchase Tax.

JAMES MACDONALD
DAWSON STREET, GREENGATE
SALFORD 3 : : LANCs

Phone: Blackfriars 3821/2



To those Chemists not serviced by a member of our reduced representative staff and who have not had a quota for the last six months.

GLUCOSE MEDICATIONS. Datum year purchasers please apply within seven days for quota of available distribution as fixed by M.O.F. Otherwise balance must be distributed in smaller quantities to non-datum year purchaser chemists who are invited to make application forthwith.

VITA GLUCOSE. By arrangement with the ministries concerned, there are sufficient supplies for all Diabetics on Insulin and urgent medical cases. **GLUCOSE CONFECTIONS** (1) Available for URGENT MEDICAL CASES against individual prescriptions. (2) Normal sales in EASTERN ZONE only, against Transfer Forms.

VITALISED STOMACH POWDER. Each teaspoonful contains, in addition to the enzymes Diastase and Papain, 35 international units of Vitamin B1.

Simpkins
of Sheffield



NIPITS

PASTILLES

FOR

**VOICE, THROAT
AND CHEST**

Made by

TEASDA'E & CO. LTD. CAR'IS'E



RECOMMEND THE

"LYCO"

YEAST TABLETS

Show you a margin of

50% PROFIT

Retail prices 10½d., 1/6d. and 2/9d.

Please order from your Wholesale House.

THE STANDARD YEAST CO., LTD.
CHISWICK, London, W.4.

Labels.
Townsend's
Enter

CORKS!
STOPPERS. ETC.

C. OLLEY & SONS LTD.
CAMPERDOWN ST. & GT. ALIE ST.
LONDON, E.1
Established 1844

**CARBOY STAND
AND TILTER**

For drawing off small quantities of Acids from Carboys.

The Carboy can be tipped to any position with one hand.

**LEIGH & SONS
METAL WORKS**
Orlando St., BOLTON



Manufacturers!

HOW TO INCREASE RETAIL SALES

*For advice regarding
chemists' co-operation
and other distribution
problems consult the:—*

IRISH DRUG ASSOCIATION

12-14 COLLEGE GREEN, DUBLIN, C.I

Read future announcements

Your Goods will appear Attractive when Sealed

Also invaluable for
PACKAGING • MASKING •
IDENTIFICATION •
PROTECTION •
• FIXING •
• ETC •

WITH

INDUSTRIA

Gives protection, adds appearance and simplifies all packaging and sealing work. All done in split seconds. STICKS WITHOUT MOISTURE whether on paper, glass, wood or metal. Supplied in plain transparent and a wide range of colours giving attractive appearance.

Write today for particulars to Dept. C.D.2.



Apply for sample rolls or advice to:-

INDUSTRIAL TAPES LIMITED

92-94 NEWMAN ST. LONDON. W.1. Phone: MUScum 4215 & 8246/7

THE **SELF** ADHESIVE TAPE FOR ALL INDUSTRIAL PURPOSES

People are asking for DOMESTOS

..... but we regret that supplies of this quick - selling cleanser and disinfectant are held up owing to a shortage of bottles.



Limited deliveries at present yet we look forward to ample supplies in the future

DOMESTOS LIMITED
College Works, Newcastle-on-Tyne

It's no gamble to start

TOWN TALK

—the Silver Polish which our regular and discriminating customers, to whom your oil wares will also appeal.

ORDER DIRECT OR FROM

| | |
|--|---|
| MANCHESTER: D Mawdsley & Co James Woolley Sons & Co., Ld | NEWCASTLE-ON-TYNE Wilkinson & Simpson, L |
| LEEDS: Goodalls (Leeds), Ltd, | LONDON: Brooks & Warburton, L |
| LEICESTER: E. H. Butler & Son. | LIVERPOOL: Butler & Crispe Ayrton, Saunders & Co., L |

THE TOWN TALK POLISH CO., MANCHESTER

Deliveries
NOW—



GLYSECT D.D.T.

The new scientific household insecticide
Stocks ready.
Orders accepted.

MADE BY GLYSAN PRODUCTS LTD.
All enquiries to

G. HAVINDEN LTD

Havinden House, 71, Baker St., W.1
Telephone: WELbeck 2814/5/6

AN APOLOGY

The tremendous demand for our redesigned products is creating a temporary delay in executing orders. We apologise, and ask for the indulgence of trade friends, both wholesale and retail.
We are now working day and night in the endeavour to serve and satisfy.

SALES ON DISPLAY—
REPEATS ON MERIT

KOFFS FINEST QUALITY BRONCHIAL TABLET

SORE THROAT TABLETS

SWEET-BREATHS MINT FLAVOURED

ICE-BALM Menthol Compound for Headaches, Etc.

SEA-SPRAY LIP-SALVE—MEDICATED

LIST ON APPLICATION

STANNARDS MANUFACTURING CHEMISTS
TADWORTH, SURREY



GNOME
Photographic
Equipment

- ENLARGERS
- PRINTERS
- LIGHTING APPARATUS
- MASKING FRAMES
- PROJECTORS, ETC.
-

Write for catalogue giving details of our full range
GNOME PHOTOGRAPHIC PRODUCTS LIMITED
21a Working Street
CARDIFF. Tel. 6974

**BROMISOVALERIANYLUREA
VALERIANATES**
(Salts & Esters)
BENZYL SUCCINATE
CYCLOBARBITONE
PHTHALYL bis-DIETHYLAMIDE
SUCCINIMIDE
SUCCINIC ANHYDRIDE

CHEMI-SYNTHETICS LTD.
Cubitt Town Wharf
Saundersness Road,
LONDON, E.14

Phone:
EAST 3858

Cables:
VALOCHEM LONDON

**GROUND
DRIED YEAST**
DUGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY LEEDS

CATTLE'S VERMIN KILLER
IN PACKETS
5d., 9d., 1/3, 2/6, 5/-, P.A.T.A.
WHOLESALE AT
3/-, 5/6, 9/-, 18/-, 36/- per doz.
Order some today from your wholesaler

EDMUND STEKEL
**CARDBOARD BOX
MANUFACTURER**
Head Office
214 · BISHOPSGATE
LONDON, E.C.2
Telephones B1ShopsGate 1927, 6427, 5502
Factories:
2 CAMDEN ROAD DEN TOWN, N.W.1
GULiver 4230
17 FOLGATE STREET BISHOPSGATE, E.1
B1ShopsGate 1927, 6427, 5502



**LABELS
OF
DISTINCTION**
FOR WHOLESALE MANUFACTURING
& RETAIL CHEMISTS

Medical and Dispensing Labels,
Toilet, Cosmetic and Perfume,
largest range of stock labels
(attractive two-colour 50-60 word-
ings), Shampoo Powder Envelopes
and Innets, also Saccharine Tablet
Envelopes (new wording), with
name and address. We can also offer
multi-coloured advertising stamps
in exclusive designs.

NEW REGULATIONS—
Send 6d. for complete
sample range

**CARILLON
PRESS LTD**
Artists in the Production of Fine Labels
BOURNEMOUTH

Perfumery Raw Materials for Soap and Cosmetic Manufacturers

CARVANSONS LTD.

Monton Lane Works, Eccles, Lancs.

Phone : Eccles 2316.

Grams : Carvansons, Manchester

Increasing Sales

ViroTabs
The Scientific Fourfold Tonic

The ① IRON
② YEAST
③ CALCIUM
④ PHOSPHORUS



A daily demand is being created for ViroTabs. An attractive Pack, backed up by distinctive display material and attractive press advertising will mean steady sales for you.

Write for details to

M. CALTHORPE & CO., LTD., OSSETT, YORKSHIRE

WHY THE DEMAND FOR RHEUMAGIC is RISING!

The War effort made additional demands on the Nation's strength. Those prone to Rheumatism, Lumbago, etc., require a reliable liniment to relieve suffering and enable them to carry on their work.

Rheumagic makes no claim to cure Rheumatism. Its purpose is to relieve pain. It does so speedily and in this way makes a contribution to the National effort. Rheumagic is backed by a guarantee of money back if no relief.



Rheumagic

Brand
FORMULA OILS **PATA**

Retail Prices: 1/5 & 3/4 (Including tax)
International Laboratories, 1-3 Smedley St., London, S.W.8

TALKING IT OVER

WHAT DO YOU WANT FROM THE PRODUCTS YOU SELL?



First . . . QUALITY? If you could read my post, you could not fail to be impressed, as I am, by the letters of thanks we receive from the public. We are proud to know that Koray Tablets are accepted as a standard for efficacy and purity. PROFIT? The profit available is standard on such merchandise. On

quantity orders, extra discounts increase profits, making Koray products as profitable to sell as any to-day. Attractively packed in display containers, they are counter lines which are handled with a minimum of trouble, easy to sell, clean, and requiring no breaking bulk.

PUBLIC DEMAND? Hundreds of thousands of advertisements in the Press, as well as cinema films and posters in busy thoroughfares and public vehicles, are telling the story of Koray everywhere, every day, and Koray is becoming one of the real leaders, if not the leader, of such merchandise in this country. The House of Koray believe that their product offers you the answer to your problems, and we invite you to ensure that your stocks are sufficient to meet the demand, which, already great, is still increasing.

James

**J.S.M.A. I.A.M.A.
GENERAL SALES MANAGER
KORAY LIMITED**

—Although Koray is still in short supply, there are areas where we have vacancies for wholesalers. Retail chemists should write to us if they have any difficulty in obtaining supplies, giving the name and address of their usual wholesalers.

**THE HOUSE OF KORAY
HANOVER SQUARE, LONDON, W.1**

SPARKLING Harrogate Health Salts



17/- per doz.
(Purchase tax 2/10)
Retail selling price
2/- (incl. tax).

32/- per doz.
(Purchase tax 5/4)
Retail selling price
3/9 (incl. tax).

Supplies are restricted but orders are dealt with in rotation. You are invited to apply for a quota to the

Sole Selling Agents:

KORAY LTD.

Koray House, 25 Hanover Square, London, W.1

Manufactured by
The Harrogate Tablet Co. Ltd., Harrogate



FOR
ARTHRITIS
PARTICULARLY THE
INFECTIVE TYPES

"S.B.T."
BRAND

**STERILISED
SOLUTION**

NOW EXEMPT FROM PURCHASE TAX

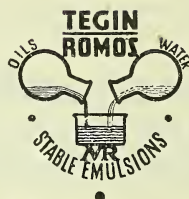
| | | | |
|-------------------|---|-----------|------------|
| | | 10 c.c. | 60 c.c. |
| Retail Price | - | 11/2 each | 55/6 each |
| Net Medical Price | - | 10/- each | 50/- each |
| Retail Chemists | - | 90/- doz. | 444/- doz. |

P.A.T.A.

Medical Literature available



C. J. HEWLETT & SON, LTD.
35/43 Charlotte Road, LONDON, E.C.2



Tegin-Romo

and many other Emulsifiers as originally introduced supplied by us for over 15 years are now being exported for post war projects in the following industries:-

| | |
|----------------|----------------|
| PHARMACEUTICAL | CHEMICAL |
| COSMETICS | LUBRICATING |
| FOOD & BAKERY | GLUE |
| CONFECTIONERY | SPECIAL PLANTS |
| TEXTILES | LEATHER |
| POLISHES | WAXES, Etc. |

★ Enquiries solicited for your special problems

MR

CHEMICAL PRODUCTS LTD

20-22 NORTHGATE HOUSE, MOORGATE, LONDON, E.C.4
Telephones: MONarch 4721 CLerkenwell 1709
Telegrams: CHEMROMOS London



Vinecta
The
Superior Tonic

RETAIL:
5/- & 3/-
(including Tax)

Rich in medicinal and therapeutic properties, Palatable and Pleasant. For Children and Adults.

Recommended by Doctors and Nurses.

PROFIT PER DOZEN

| | | | | |
|------------|---|---|---|------|
| Large Size | - | - | - | 13/4 |
| Small Size | - | - | - | 8/- |

Extra 2½% for Cash in Seven Days

SUPPORTED BY EXTENSIVE TALKIE
FILM AND PRESS ADVERTISING

Write for Specimen Labels of other Packs

VINECTA PRODUCTS LTD., DEWSBURY

'ELTOBAND'
FIRST-AID DRESSINGS

B.P.C. QUALITY 2d. Pkts.

Each Packet consisting of three assorted sizes.

Samples and Prices on request.

ELTO (Chemists) PRODUCTS Ltd.,
Manufacturers, (Regd.)
81/83 Oxford St., Glasgow, C.5.

NOW ON THE P.A.T.A.

KALADEX

The ethical mixture for the relief of ASTHMA and BRONCHITIS and other respiratory conditions

P.A.T.A.

Retail Prices
Including Purchase Tax

3/4 5/7 13/4 per bottle

Available from your wholesaler or direct from:
The KALADEX Co., 1 Drewton St., Bradford

**Quality
Service
Goodwill!**

These characteristics have established the leadership of 'ASPRO' among medicinal lines in all parts of the world to which it has been introduced.

Unique marketing methods, in which service to the distributor and to the public is the first consideration, have secured for 'ASPRO', everywhere, a standard goodwill which lifts it right "out of the rut," above the inroads of plagiarist or imitator.

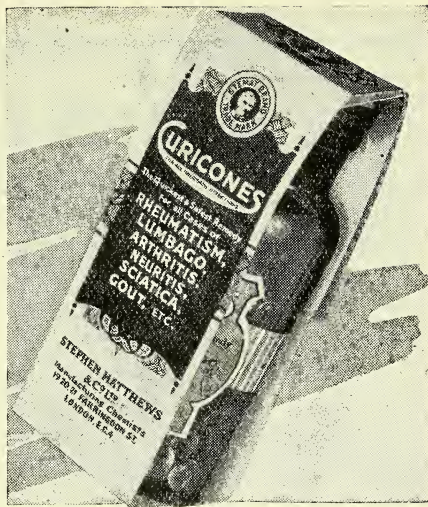
'ASPRO' protects its distributors' interests as wholeheartedly as it protects the people's health. Wholesalers and retailers quickly realise that 'ASPRO' is synonymous with fair trading, a ready seller which renders genuine service to the public. As a result, 'ASPRO' enhances the high reputation of British goods wherever it is sold.

'ASPRO'

Tablets

are made by

ASPRO LTD., SLOUGH, BUCKS
ENGLAND



CUSTOMERS WANT
THE LARGE 24/- SIZE
You can order it!

We are pleased to draw attention to the fact that

5/- and 24/- Bottles of

CURICONES

are always available through all
leading wholesalers

We draw special attention to this because, in recent weeks, many instances have come to light of intending purchasers being informed that these sizes are unobtainable

ORDER THROUGH YOUR USUAL
WHOLESALER

CURICONES

For the relief of Rheumatism and kindred troubles

STEPHEN MATTHEWS & CO., LTD
19-21 FARRINGTON ST., LONDON, E.C.4

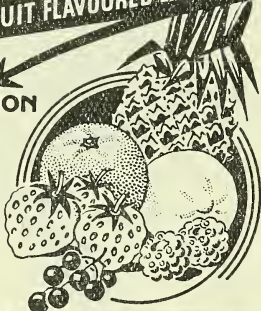
Frutabax

ASSORTED FRUIT FLAVOURED LAXATIVES

FOR
CONSTIPATION

SUITABLE FOR
CHILDREN
AND ADULTS

Better than
Castor Oil



Manufactured by

BROOK, PARKER & CO. LTD.
BRADFORD, ENGLAND.

NEW



is ready for YOU.

Please send 1d. stamp early for
valuable Buyers' Guide.

STANNING PROPRIETARIES

27 Oxford Street,
Harrogate, Yorks

FENNINGS

FAMOUS FOR OVER 80 YEARS

PATA

FENNINGS' FEVER MIXTURE 1/3 a bottle
(If difficult to obtain write direct to Messrs. SUTTON & SONS, 12 Brandon Rd., London, N.7.)

FENNINGS' LITTLE HEALERS

For Coughs, Colds, Bronchitis, etc. 3/- glass tubes and 6/- Carton
of 12 Packets, retailing at 6d. each.

FENNINGS' OINTMENT. Demand Steadily Increasing

For Cuts, Burns, Bruises, Chilblains, and all skin irritations. 1/3 a tin

FENNINGS' WHOOPING COUGH POWDERS

FENNINGS' WORM POWDERS

FENNINGS' STOMACH STRENGTHENERS

FENNINGS' RHEUMATIC AND ERYSIPELAS DROPS— 1/3 a bottle

} 1/3 and 3/- boxes

Please address orders and inquiries to your Wholesaler

N.B.—FENNINGS' COOLING POWDERS (Children's and Adults')
are at present in short supply, owing to war conditions, but every endeavour
is being made to execute orders

PROPRIETORS: THE TRUSTEES OF ALFRED FENNINGS (DECEASED)
COWES, Isle of Wight



Reasons why Anne French cleansing milk

*has maintained its reputation . . .
and yours*

Because throughout the days of shortages and restrictions, the high standard of this product has been maintained.

Because supplies, when available, are distributed with perfect fairness and impartiality to all stockists.

Because the Anne French advertising campaign has explained to the public that shortage of stocks has not been the fault of the retail supplier.

Because the press advertising has been designed to educate women in the need for deep pore cleansing.

Because behind the manufacture of Anne French Cleansing Milk is a background of scientific laboratory research, and talented and reputable chemists.

Because in selling Anne French Cleansing Milk to your customers you are supplying them with the finest means of acquiring and developing a healthy complexion.

Because as supplies increase, your turn-over will be considerable, as our policy of educating the public in the benefits obtained from the use of Anne French Cleansing Milk will continue to create demand

Anne French CLEANSING MILK

2/5, Old Bond Street, London, W.1. • Manufacturers and Distributors for Anne French
Cleansing Milk • International Chemical Company Limited, Clifton House, Euston Road,
London, N.W.1.

Terms : 12/- per dozen, Purchase Tax 12/-. Price to the Public: 2/6d. each including
Purchase Tax.

Position of trust

A mother asks you

"Can you recommend? . . ."

"Can you recommend an introductory cereal food for my baby of 5½ months?"

"Certainly. Here's M.O.F. It's a finely sieved, fortified Infant Cereal specially processed for quick cooking."

"Is it all right for a child aged 5½ months?"

"M.O.F. is recommended for general use in infant dietary from 5 months onwards. It can be given as an addition to a simple milk mixture, or later as the staple part of a mixed diet. In cases where weaning must take place at an early age, M.O.F. may be given from 3 months. It can also be used to supplement breast milk."

"How shall I know how to give it?"

"If you are in any doubt, suggestions on feeding may be obtained from the Consultant Pediatrician of the M.O.F. Information Service—the address is in the tin."

"But can I be sure of getting a regular supply?"

"Yes. By permission of the authorities concerned, the makers are in a position to maintain supplies of M.O.F. for Infant Feeding."

These are questions which are often asked of a chemist. You know about M.O.F.'s component food factors, which, as names, mean very little to anxious mothers. But you, in your position of trust, asked all sorts of questions, must be sure that what you recommend is genuinely good.

Here is the composition of M.O.F.:

| Per cent. | | Grams per oz. |
|-----------------------------------|------|-------------------------|
| Fat | 6.2 | Fat 1.85 |
| Protein | 10.7 | Protein 2.15 |
| Carbohydrate .. | 70.0 | Carbohydrate .. 19.87 |
| Mineral Matter | 2.7 | Mg. per oz. |
| Fibre | 0.2 | Iron 5.0 |
| Moisture | 10.2 | Calcium 120.0 |
| | | Phosphorus ... 150.0 |
| Vitamin B ₁ as Aneurin | | Per oz. |
| | | Hydrochloride 0.079 mg. |
| Vitamin D | | 600 I.U. |
| Calories | | 110 |

Compare this with any other Infant Cereal



M.O.F. IS PREPARED BY A. & R. SCOTT LTD., WEST MILLS, MIDLOTHIAN, SCOTLAND

The CHEMIST AND DRUGGIST

SUPPLEMENT



This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 19
1946

28, ESSEX STREET, LONDON, W.C.2

trailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 1/- extra.

SITUATIONS OPEN

For 40 words or less, 2d. for every additional word.

RETAIL (HOME)

NCH Managers are required by London Co-operative Chemists, Ltd., for progressive shops in various parts of London. Applications from lady and gentleman pharmacists, including members of the Forces who are shortly to be dismissed. Inquiries in the first place to Assistant Chemist, 54 Maryland Street, London, E.15.

GHTON. Qualified assistant required: lady or gentleman. Good class family and dispensing little W.H.I. One able to take charge when needed. Usual duties. Congenial post. Good offered to suitable person. Full particulars apply, Chemist, 12 Matlock Road, Brighton.

ABLE Assistant required for dispensing and to assist at counter. No Sunday or half day duty. Send particulars of experience and required to Morgan, Chemist, Manor Park, London, E.11.

SEY. CHANNEL ISLES. Position offered to Qualified Chemist as Assistant and Dispenser. Established High Class Pharmacy. Applicant must be energetic and accurate and of good all round training. Write enclosing references, particulars of age, height, and salary required. Enclose photo of B. de Faye, Messrs F. G. de Faye Ltd., Chemist, David Place, Jersey. Income tax 4/- in £.

Y Assistant wanted for Counter and Dispensing. Nice shop, easy hours, good business, London, W.2. Send particulars of experience and salary required to: Thomas Marns, 100, Leyland Road, London, W.5.

Y Assistant required in pleasant seaside resort. Duties include light dispensing and assistance at counter. Congenial situation, pleasant working conditions and no holiday duties. 9 to 6 week-days, and usual half holiday. See state salary required and send photo if possible. Wilfrid H. Curtis, 55 Bohemia Road, London, E.15.

Y Assistants required for Retail Drug Stores at Luton—St. Albans and Edgware—managerial positions, good posts for right type of persons, must be good Saleswomen and reliable. Particulars of experience, age and salary required to: The United Chemical Co., 2, Dudley's Corner, Watford, Herts.

Y Unqualified, for Chemist's Office. Central London. Apply "A," c/o 945/319, C. & D. London Office.

ARGERRISON, OAKENGATES, SHROPSHIRE, requires young single Pharmacist for training for future Branch Management. Excellent prospects and salary for right man.

PETERBOROUGH MEDICAL INSTITUTE require the services of a Dispenser, Lady or Gent, morning and evening surgeries. No Sunday or half-holiday duty. The hours do not exceed 10 per week; suit anyone who is seeking a light job. Applications, with copies of references, full particulars and salary required, to the Secretary, 10, New Road, Peterborough.

PHARMACIST required as Manager, previous experience as manager not essential; permanent position. State age, experience, qualifications, and when available, to Eric Holloway (Chemist), Ltd., Windmill House, Cradley Heath, Staffs.

QUALIFIED Lady or Gentleman required as Superintendent Pharmacist. No holiday or Sunday duty. Very good salary to right person. Apply D. T. Battick (Chemists), Ltd., 34-36 New Park Road, Brixton Hill, S.W.2.

QUALIFIED Manageress required for busy shop—10 miles from Leicester. Salary £500 per year, plus commission in profits. Permanent position if satisfactory. 945/311 C & D. Office.

QUALIFIED Pharmist for Dispensing in high-class pharmacy. Good prospects for right man. Excellent references essential. Apply J. W. Quibell, Ltd., 885 Finchley Road, Golders Green, N.W.11.

REQUIRED, qualified Chemist, permanent, to commence during April or May. Busy middle-class retail business. Must be energetic and prepared to work; experience in latest medical products essential. Generous salary to first-class man, preferable ex-Service, short hours. 943/247, C. & D. Office.

REQUIRED young lady Pharmacist for family business. Dispensing and Counter work. Capable of taking charge if necessary. Reply, stating salary required—give all details in first letter. Laviers, Chemist, Bridgend.

SEATON, Devon. Vacancy for qualified or unqualified Assistant. Apply Hinton Lake & Son, Ltd., 41, High Street, Exeter.

SHREWSBURY. A good position is offered to a young lady with dispensing and counter experience. Full particulars of experience, age and salary required to A. Williams, 21 Castle Street, Shrewsbury.

SOUTH COAST. Qualified Manager. Thorough knowledge of Photographic Retail, including Precision Cameras, Sub-standard Cines, etc. Particulars to 945/308 C. & D. Office.

S.W. LONDON. Busy Drug Store requires a Qualified Man (M.P.S.) to re-organise present business to Pharmacy. A splendid opportunity for an energetic young man. Write, stating experience and salary required to 946/331 C. & D. Office.

UNQUALIFIED Assistant required immediately for busy family business. Accustomed to N.H.I. Dispensing. Easy hours. Apply, giving usual particulars, Harrison, M.P.S., 49 Hainault Road, Leytonstone, E.11.

VACANCIES occur for two Lady Assistants, one senior and one junior. Progressive appointments in modern good class pharmacy. Apply please to Mr. Francis, c/o A. E. Miles, M.P.S., Pharmacist, 12A, Court Parade, North Wembley. Telephone ARNOLD 1514.

WANTED. Assistant for Dispensing. Qualified or Unqualified. State age, experience and salary required. W. E. Matthews, Ltd., 40 George Street, Croydon.

WANTED Dispenser-Secretary, some nursing experience an advantage, in Medical and Surgical practice. Apply with reference to James Lyons, M.D., F.R.C.S., 12 The Avenue, Lincoln.

WANTED immediately for Manchester area, experienced Qualified Assistant (male), for busy Pharmacy: good prospects for capable applicant. Reply 945/296. C. & D. Office.

WANTED immediately, Unqualified Dispenser. Male or Female for high-class Family and Dispensing Business in Yorkshire. 945/315 C & D. Office.

WANTED, Qualified Chemist, temporary position. Not liable for H.M. Forces or National Service. Applications, stating age, experience and wage required to be sent to the West Stanley Co-operative Society Limited, Front Street, Stanley, Co. Durham.

WORTHING. A. G. Martin, 8/10, Goring Road, West Worthing. Phone 970. Lady assistant mainly for toilet dept. also dispenser qualified or unqualified, either sex.

YOUNG, qualified, Pharmacist required to take charge of dispensary in high-class dispensing business. West Midlands. Excellent prospects. Apply: 946/329 C. & D. Office.

RETAIL (OVERSEAS)

CHEMIST wanted with wide knowledge of Cosmetic Chemistry for excellent position Colonies. Write giving full details of previous experience, salary, etc., H.650, Scripps' Advt. Offices, South Molton St., W.1.

WEST AFRICA. A permanent and progressive career is offered to qualified Chemists and Druggists (English certificate only). Commencing salary £500 per annum. Separation and children's allowances to married men. Tour of 21 months' duration, free passages, furnished quarters, medical attention and membership to pension fund. Write giving full particulars to "E. K.," c/o Charles Barker & Sons, Ltd., 31 Budge Row, London, E.C.4.

WHOLESALE

ANALYST, experienced, required for Pharmaceutical Manufacturing firm in Leeds. Salary according to qualifications and experience. Write 943/242, C. & D. Office.

BUSH, BEACH & GENT, LTD., Marlow House, Lloyd's Avenue, E.C.3, seek Assistants for their Saleroom and in connexion with their Export Department. Please address replies to the Secretary.

ENERGETIC Young Man (25-35) of good appearance and pleasing personality, residing in or near Cardiff, Birmingham, Bristol, Manchester, Nottingham, wanted as Representative by well-known London firm for calling on doctors, dentists and chemists. Intelligence and character of more importance than experience. Commencing salary £350 plus expenses. Full particulars in first instance to 818, Spottiswoodes, Regent House, Kingsway, W.C.2.

EXPERIENCED Tablet Maker required for pharmaceutical and industrial products. Apply Personnel Manager, A. Boake, Roberts & Co., Ltd., Carpenters Road, Stratford, E.15.

LIVE Agents required for Wales, Scotland and Eastern Counties to introduce to the retail Pharmaceutical trade well-known proprietary lines and other products, also bulk chemicals to the wholesale trade. Please reply giving full details in first letter to Lax-Vita Limited, 66 Victoria Street, S.W.1.

MANUFACTURING Chemists require Forelady for packing floor; used to the control of female labour. Apply, 943/229, C. & D. Office.

MANUFACTURING Chemists, specialising in the manufacture of wax products, require Working Foreman used to the control of labour. Apply, 943/230, C. & D. Office.

MANUFACTURING Laboratory: Pharmacist required immediately to take charge of laboratory in North of England firm. Experience in use of manufacturing plant, sterilization by Autoclaves etc., essential. Write stating age, salary, experience and when available to 945/306 C. & D. Office.

PROCESS Worker for tablet department in leading London Drug House. Good experience in granulating essential. 945/320 C. & D. Office.

PHARMACIST required by Manufacturing firm in Manchester District to take charge of large Packed Drug Department. Applicant held similar position preferred but not essential. Must be good organiser, able to control large staff and be accustomed to mechanical filling labelling plant. Write giving full details of experience, age and salary required. 943/239, C. & D. Office.

P.H.C.B. PHARM. OR B.S.C. to visit medical profession to introduce new antibiotics biologicals for manufacturing chemists of high repute. State age, details of education, qualification previous experience in first instance. Applicant will be treated in confidence. Write to 945/304 C. & D. Office.

REPRESENTATIVE: Pharmacist required to call on doctors and hospitals by well-known firm in North of England. Car available necessary. Write stating salary, age, experience when available to 945/304 C. & D. Office.

REPRESENTATIVE required in 1, Scotland; 2, Yorkshire; 3, Northumberland and Durham areas to carry additional line (commission basis) Exceptional opportunity. Medical product, in demand. Chemists only. Apply 946/330 C. & D. Office.

SALESMEN with good connections and who can show to sell advertised lines for the following areas: 1, Midlands; 2, Yorkshire; 3, West of England; 4, South Wales; 5, South Coast, South London; 6, Lincolnshire Leicestershire etc. Commission for first period with revision later if desired and approved. State actual area covered and lines called. The arrangement can be worth over £10 per week. Apply to Sales 945/317 C. & D. Office.

WAREHOUSE and Dispatch Manager. A Manager is required for our Warehouse and Dispatch Department in the Home Counties; qualifications: M.P.S., several years' experience in stores, warehouse, and dispatch department, knowledge of transport and export shipping; in release give details of past experience and salary required. 942/217, C. & D. Office.

WHOLESALE Warehouse: Skilled assistant required to supervise general work and handling of orders for doctors and hospitals by North of England Firm. Write stating when free, experience and wage to 945/305 C. & D. Office.

WILLIAM RANSOM & SON LTD., Manufacturing Chemists, Hitchin, require qualified Assistant Works Manager. Age preferably 25-35. Accurate experience on wholesale scale essential.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word

RETAIL (HOME)

DRUG-STORE Manager, Ex-Service man. Full knowledge of present-day position law and prices. First particulars first letter. 946/326 & C. Office.

LADY desires post, business experience; pre-war own business; High-class Toilets, Chemical Sundries, Fancy Goods; 5 war years, account book-keeping. Wages, P.A.Y.E.; good organic excellent references. Unfurnished accommodation essential. 945/299 C. & D. Office.

WOMAN Dispenser, Hall Certificate; 10 years General Hospital experience; desires post in Hospital, London or Suburbs. 945/298 C. & D. Office.

WHOLESALE

RELIABLE experienced Representative seeking position with reputable house South of England. Ex. R.A.F. 945/307 C. & D. Office.

A WELL-KNOWN Agent is open to take on other line, or range, for distribution to Chemists and Stores in the London area. Sole agency an first-class products only considered. Excellent coverage given by first-class representative. 944/250 C. & D. Office.

HARM. Lady, two years' analytical experience, desires post with manufacturing firm. London area. 946/327 C. & D. Office.

Pharmaceutics (June, 1945) desires responsible position with manufacturing firm (cosmetics). Please state salary and terms. 945/312 C. & D. Office.

A release, unqualified (33), desires progressive post preferably as Outside Representative or reliable firm. Retail, hospital and wholesale experience. 945/324 C. & D. Office.

ICIENT, dignified representation in Southern England. After 15 years' successful association with of International repute in chemist trade, tentative seeks change in this area. Member of Sales Managers' Association by examination. Four years' commissioned service Royal Navy. Immediate engagement not essential. C. & D. Office.

ERAL Manager (39), desires change; prepared and able to take complete charge and administration of staff, production, sales, finance, and statutory requirements, etc., of a medium manufacturing concern. Practical to-date experience of export trade. Enquiries to in confidence. Write, 945/316 C. & D.

N and efficient man desires post; 15 years' experience Pill Machinery, Dispensing, Mass and Staff Control. 945/297 C. & D. Office.

REPRESENTATIVE calling chemists, grocers, dressers, stores, co-ops, etc., E. and N. Durham, and Lincs, open to represent good including Cosmetics, on salary, commission, or expense basis; interview preferred. Write, C. & D. Office.

REPRESENTATIVE, extensive established chemist connection, wholesale and retail, open for engagement with house of repute, and consider two or three sole agencies. 945/301 C. & D. Office.

REPRESENTATIVE of mature experience, having large and sound connexion with Chemists, etc., in Home and Eastern Counties, willing to go over West Country, seeks appointment with repute who requires a reliable, tactful, conscientious worker; salary or salary-commission and terms. 943/237 C. & D. Office.

ES Manager (M.S.M.A.). Practical experience in sales organisation and general business management desires change; would consider employment or partnership. Enquiries invited. 945/312 C. & D. Office.

LET Maker seeks post any district, experienced in most machines, single and multiple-punch; disengaged. 942/209 C. & D. Office.

NG Industrial Chemist (Honours B.Sc., some chemical engineering training and practical research experience) wishes to gain experience of manufacture of pharmaceuticals with progressive firm willing to offer responsible position and period of training. 946/328 C. & D. Office.

APPOINTMENTS

ON MENTAL AND EMERGENCY HOSPITAL EXMINSTER, NR. EXETER

ISTANT DISPENSER required, male or female, unqualified. Hospital experience and the holding of Hall Diploma an advantage, but not essential. Hours 9 a.m. to 5 p.m. daily, Saturdays 9 a.m. to 12.30 p.m. Sunday Duty for one day every third week. Apply stating salary and enclosing copies of three recent testimonials to the Medical Superintendent.

SURREY COUNTY COUNCIL

ST. LUKE'S HOSPITAL, GUILDFORD
ISTANT PHARMACIST. Temporary. Must be M.P.S. or Ph.C. Salary £250 × £10—10 p.a. plus bonus 25/- p.w. male, 18/6 p.w. female. Apply to Medical Superintendent.

ASSISTANT PHARMACIST required by **MIDDLESEX COUNTY COUNCIL** at **HILLINGDON COUNTY HOSPITAL**, near Uxbridge, Middlesex. Applicants must hold one of Pharmaceutical Society's qualifications. Commencing salary £260 p.a. Increments of £10 up to £300 p.a. considered annually. Additional cost of living bonus (now £60 p.a.). Unestablished staff. Whole-time duties under Medical Director. Application stating age, qualifications, experience enclosing copies of up to 3 recent testimonials to Medical Director of Hospital. Application forms not provided. (Male candidates should state position with regard to military service). Closing date 26th January, 1946.

KENT COUNTY OPHTHALMIC AND AURAL HOSPITAL, MAIDSTONE (111 Beds)

Applications are invited from registered Pharmacists for the post of Pharmacist which becomes vacant on the 1st April, 1946. Commencing salary £350 per annum rising by annual increments of £10 to £400. The post is pensionable under the Federated Superannuation Scheme for Nurses and Hospital Officers. Applications, stating age, qualifications and experience, accompanied by copies of three testimonials, should reach the undersigned by 4th February.

JOHN W. STRICKLAND, F.H.A.,
Secretary.

LOCUM Assistant Pharmacist required immediately at Southend Municipal Hospital, Rochford. Salary £7 7s. per week, plus war bonus. Apply, Medical Superintendent. Tel. No.: Rochford 56278.)

MIDDLESEX COUNTY COUNCIL

Appointment of COUNTY ANALYST. Applications are invited for this part-time appointment as from 1st July, 1946. Salary £1,100 p.a. plus certain additional fees. Further particulars obtainable by sending stamped addressed envelope to the undersigned. Last day for applications 16th March, 1946. C. W. Radcliffe, Clerk of the County Council, Guildhall, Westminster, S.W.1.

PHARMACIST. Applications are invited from Registered Pharmacists for post in small Hospital. Federated Superannuation Scheme in force. Commencing salary, £300 per annum. 943/234 C. & D. Office.

QUEEN MARY'S HOSPITAL FOR THE EAST END

STRATFORD, LONDON, E.15

Applications are invited for the post of Pharmacist (male) to take charge of his Department with one qualified assistant. Candidates should be not over 40 years of age and should hold the qualification M.P.S. or its equivalent. Preference will be given to those with experience in Institutional purchasing and manufacturing. Commencing salary according to experience, but not less than £325 p.a. with lunch and tea. Federated Superannuation Scheme in force. Application stating age, qualifications and experience accompanied by copies of recent testimonials should reach the undersigned as soon as possible. M. J. Huntley, House Governor and Secretary.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less.

FOR SALE. 2,000 160-oz. Amber Winchester, complete with Bakelite Caps, at 2/6 each. Ex. London Warehouse, 37 Lewisham Road, S.E.13. Telephone Tideway 4328 or 2904.

SANITARY Towels (wool), size 2, branded. Retail 2s., 18s. dozen carriage forward. 10 gross. 942/213 C. & D. Office.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

CALAMINE Lotion. Packed 4-oz. S/Cap Panels or Flats; wanted by Wholesale Distributing House. Will manufacturers in a position to deliver for season's trade advise prices and quantities which will be available. 943/252 C. & D. Office.

CHEMISTS' Fittings and Utensils wanted for branch in Yorkshire; single items or complete **500 LBS.** small Throat Pastilles required every ten days in bulk. Also Licorice and Menthol Pellets. Lowest price for cash. Urgent. 944/263 C. & D. Office.

sets. Full particulars and prices to Selles Dispensing Chemists, Ltd., Hallgate, Cottingham, E. Yorks.

WANTED, for large City Glasgow Store opening Drug Dept., Packed Goods, attractively produced at competitive prices. Patent Medicines, Toilet Preparations and Sundries also required. Payment 7 days following receipt of goods. 944/257 C. & D. Office.

WANTED by Wholesale Distributors to the Retail trade. Lambwool Puffs and Squares from manufacturers only with quotas to spare. State sizes, prices, and whether each packed in separate cellophane envelope. Immediate delivery only. 944/272 C. & D. Office.

WHOLESALE Distributors wish to contact manufacturers only in a position to give immediate delivery Nail Files, Scissors, all kinds, Household, Hair-trimming, Tweezers, Square and Pointed; Dressing and Surgical Scissors, 5" Sharp/Sharp, Sharp/Blunt, Blunt/Blunt, and 5" Curved, Nickel Plated and Chrome. 944/273 C. & D. Office.

PARTNERSHIPS

ACTIVE Partnership or Directorship in wholesale manufacturing or allied business required by qualified chemist in or near London. Will invest up to £3,000. Reply 945/313 C. & D. Office.

A SMALL old-established firm manufacturing ethical preparations offers partnership on extremely favourable terms to a pharmacist with selling ability and well-known to the profession in Lancs and Yorks. A unique opportunity for a good man with little capital. Reply stating age and experience to 946/325 C. & D. Office.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

A FIRM of Wholesale Chemists and Sundriesmen with good representation London and Home Counties willing to accept additional agencies for first-class drugs, fancy, optical and toilet goods suitable for distribution to chemists and similar businesses. Apply Warren, Stanley & Co. Ltd., 196 Station Road, Edgware, Middlesex. Phone Edgware 4674.

AGENCY required for all Chemist Sundries for distribution throughout United Kingdom, also extensive export market. Write full details: 944/267 C. & D. Office.

ESTABLISHED Commission Agent keenly interested in contacting reputable Manufacturers (with goods that REPEAT) who require Representation to either wholesale or retail traders in Northern Ireland and/or Eire. Cyril Hughes, 39 Kings Road, Belfast, Northern Ireland.

MANUFACTURERS of High-Class Reputable Products, who are desirous of obtaining either part or complete distribution throughout Great Britain, are guaranteed conscientious, systematic and concentrated service by an organisation employing a team of ten master salesmen with unique sales records. 945/303 C. & D. Office.

NORTHERN IRELAND. Well established in Belfast is open for exclusive agency toilet, cosmetic, and sundries manufacturers. class firms only need apply. Full details in com from 945/318 C. & D. Office.

RETAIL Chemist calling on farmers over area in Scottish Highlands, desires agency veterinary medicines and appliances, etc. Reply 945/310 C. & D. Office.

EXPORT TRADE

LONG-ESTABLISHED Firm wishes to import represent British manufacturers of Pharmaceutical Products, Druggist Sundries, Toilet Preparations, Cosmetics, Tooth Paste, Food. Send samples and quotations. S. Kow & Co., 25 Bonham Building, Singapore.

PHARMACIST speaking French, Italian, Russian, desires to enter into relations important laboratory manufacturing pharmaceutical products with a view to expansion of foreign. to include cosmetics, perfumery and confection etc. Please send details in strict confidence 944/285 C. & D. Office.

SPAIN. Laboratorio Ortega, P.O. Box 971, Madrid. Wanted. Representations in pharmaceutical chemical products; commercial organisation Spain and Possessions; own small factory for oration of raw and semi-manufactured materials references on application.

WELL-KNOWN import and agency firm in toilet goods and pharmaceutical trade in contact with exporters. We are interested in kinds of chemicals, drugs, cosmetics and products. First-class bank references available. Please reply to Messrs. C. G. Livijn, Stora Nyg 5 Stockholm, Sweden.

PREMISES FOR SALE

EMPTY CHEMIST'S SHOP (Fittings available £150 extra); established over 30 years. main road—Chorlton-cum-Hardy, Manchester. living accommodation. Two dry cellars, two attics and Garage. Chief £10. Price £22 943/256 C. & D. Office.

BUSINESS OPPORTUNITIES

7/6 for 40 words or less, 2d. for every additional word.

COMMERCIAL Artist, specialising in manufacturing and wholesale chemists' lines, requires commissions for the design of showcards, display cartons and all kinds of packaging and show material. Write to Alan Dick, 3 Kingsdown Rd, Tankerton, Kent.

GENTLEMAN, 35 years of age (Army Officer released), 8 years director of firm of manufacturing Chemists and Hairdressers' Sundries live personal connection amongst wholesalers export, multiple stores and London stores, requires position with unlimited scope. 944/268 C. & D. Office.

LET us pack for you all kinds of Liquids, Powders, Tablets; give us bulk, we give you the finished article; also may be able to help packing difficult bottles, jars, etc. 943/233, C. & D. Office.

SERIOUS offers solicited for the manufacture of exclusive sales in United Kingdom and Dominions of well-known and celebrated Hair Dyes and Cosmetics (patented). 944/261 C. & D. Office.

SOUTH AFRICA. Qualified Chemist, 14 years successful business proprietor, taking up residence in South Africa in the near future, open to undertake commissions for firms desirous of furthering their interests in the Union. 945/309 C. & D. Office.

WHOLESALEERS are wanted to take output of two Food Licences for Toilet Preparation. All correspondence treated confidentially. Reply in the first instance to 945/323 C. & D. Office.

BRITISH ALKALOIDS AND FINE CHEMICALS



BROMIDES & IODIDES

| | | |
|-------------------------|-----------|----------------|
| ATROPINE | CAMPHOR | CAFFEINE |
| EMETINE | QUININE | SALICIN |
| STRYCHNINE | NICOTINE | NICOTINIC ACID |
| MERCURIALS | VERMILION | PRUNELLA |
| ESSENTIAL OILS | CLOVE OIL | |
| SANDALWOOD OIL | | |
| EXTRACT OF IPECAC. LIQ. | | |
| DRUG GRINDING | | |

THEOPHYLLINE

*World conditions may determine availability
of supplies*

WHIFFEN & SONS, LTD.

INCORPORATING GEORGE ATKINSON & COMPANY.

ESTABLISHED 1654

FULHAM, LONDON, S.W.6

'Phone: Renown 3416

'Grams: Whiffen, London

The complementary treatments for colds



Welcomed by Doctors and Pharmacists as soon as it was introduced, **Argotone** is now appreciated everywhere as a reliable and effective preparation for most naso-laryngeal and certain eye affections.

To relieve additional symptoms of headaches, stiffness and fever in the common cold, the oral administration of **Deltamin** tablets is highly recommended.

Together, **Argotone** and **Deltamin** offer a complementary treatment which can be prescribed with confidence.

ARGOTONE

RETAIL PRICE **3/7** including tax

LIST PRICE **2/10** including tax

DELTAMIN

RETAIL PRICE **2/3** including tax

LIST PRICE **1/9** including tax

ATTRACTIVE TERMS DIRECT

RONA LABORATORIES, LTD., 159, FINCHLEY ROAD, LONDON, N.W.3.

ARGOTONE + DELTAMIN
NASAL & EYE DROPS TABLETS